PLANET
Networking & Communication

User's Manual

300Mbps In-Wall PoE Wireless Access Point

► WNAP-W2200

www.PLANET.com.tw

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This Device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) as of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reasons/remarks
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use; limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

WEEE regulation

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User Manual for PLANET 300Mbps In-wall PoE Wireless Access Point

Model: WNAP-W2200

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Chapter 1. Product Introduction

1.1 Package Contents

Thank you for choosing PLANET WNAP-W2200. Before installing the AP, please verify the contents inside the package box.

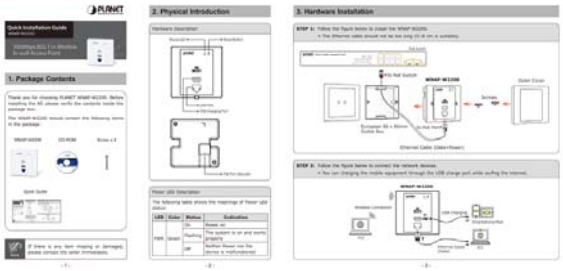
WNAP-W2200

CD-ROM

(User Manual included)

Screw x 2

Quick Installation Guide



Note

If there is any item missing or damaged, please contact the seller immediately.

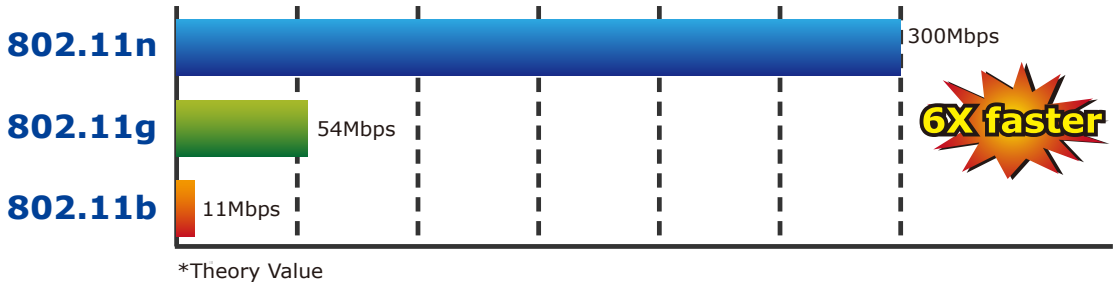
1.2 Product Description

Wall Outlet to Wireless Solution

The WNAP-W2200 is an in-wall Wi-Fi Access Point which is specially designed for existing building structure, without affecting the appearance of the interior design, which can provide users with convenient wireless local-area network (WLAN). The standard 86x86mm European Outlet Box installation, by the aid of the existing building structure, can be easily constructed as a wireless network. Thus, it helps system integrator save time, cost and human resource.

Ultra High Speed 802.11n Wireless

The WNAP-W2200 features the latest IEEE 802.11n radio with 2T2R MIMO antenna technology to provide improved wireless speed and coverage with up to 300Mbps upload and download data rate. The incredible wireless speed makes it ideal for handling multiple HD movies stream, high resolution on-line game, stereo music, VoIP and data streams at the same time stably and smoothly. It is also backward compliant with 802.11g and 802.11b standards; thus, it is no need to change the existing network for convenient maintenance. Just connect to the WNAP-W2200 and you can immediately enjoy the high-speed wireless sharing.



Full Support of Wireless Security Encryption

In aspect of security, besides 64/128-bit WEP encryption, the WNAP-W2200 integrates WPA/WPA2, WPA-PSK/WPA2-PSK and 802.1x Radius authority to secure and protect your wireless LAN. It provides the wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection.

Adapted to live In-Wall Design

Featuring attractive appearance and In-Wall design, the WNAP-W2200 can be firmly installed into the wall via the standard 86x86mm European outlet box, which is easy and convenient in room installation. Its pure and simple body without protruding antennas also gives no effects to the surroundings.

Convenient USB Charger

To provide better services for travelers, the WNAP-W2200 built-in one USB 2.0 charger whose output 5V DC power can charge any USB compliant mobile devices, e.g. cell phone, pad, and other handheld devices. Thus, this option gives convenience to public areas, pedestrians and travelers. They need not worry about forgetting to carry an AC adapter.

Flexible Deployment with PoE Feature

Compliant with IEEE 802.3af Power over Ethernet standard, the WNAP-W2200 can be powered and networked by a single UTP cable. It thus reduces the needs of extra cables and dedicated electrical outlets on the wall, ceiling or any other place which is difficult to reach. The wireless AP deployment becomes more flexible and worry-free from the power outlet locations.

Easy Installation & Management

With user-friendly Web UI and Central Management Utility, it is easy for users to install the device, even for a user who never experiences setting up a wireless network. Its SNMP feature allows the system administrator to remotely monitor and control the network devices more efficiently.

1.3 Product Features

- **Standard Compliant Hardware Interface**
  - Complies with IEEE 802.11n Wireless LAN speed up to 300Mbps
  - 2 x 10/100Base-TX Ports with 1-port PoE (PD, Powered Device)
  - 2T2R MIMO technology for enhanced throughput and coverage
  - USB 2.0 charger port for easy charging to most of mobile devices.
  - European 86 type Wall outlet compatible
- **Secure Network Connection**
  - Advanced security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES encryption) and Radius Authentication
  - Supports MAC address Filtering
- **Easy Installation & Management**
  - Easy Deployment with Standard IEEE 802.3af PoE supported
  - User Friendly Web-based UI
  - Centralized Management Utility allows administrator to monitor and configure

1.4 Product Specifications

Product	**WNAP-W2200** 300Mbps 802.11n Wireless In-wall Access Point	
Hardware Specification		
Interface	PoE Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port (Rear Panel) ※ IEEE 802.3af PD Port
	LAN Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port (Front Panel)
	USB Port :	USB 2.0, Type-A, 5V DC/0.5A Output
PoE	IEEE 802.3af	
Antenna	Built-in 3dBi antenna x 2	
Reset Button	Reset button on front panel Press over 7 seconds to reset the device to factory default	
LED Indicators	PWR/SYS LED	
Material	Plastic	
Dimensions	86 x 86 x 36 mm (L x W x H)	
Weight	113g	
Power Requirements	48V DC, 320mA	
Power Consumption	< 10W	
Wireless interface Specification		
Standard	Compliant with IEEE 802.11b/g/n	
Frequency Band	Europe / ETSI: 2.412~2.472GHz (13 Channels)	
Channel Width	20 or 20/40MHz	
Transmission Distance	Indoor up to 100m Outdoor up to 300m (it is limited to the environment)	
RF Power (Intentional Radiator)	IEEE 802.11b: 18dBm IEEE 802.11g: 15dBm IEEE 802.11n: 15dBm	

Chapter 2. Hardware Installation

Please follow the instructions below to connect WNAP-W2200 to the existing network devices and your computers.

2.1 Product Outlook

- **Dimensions**: 86 x 86 x 36 mm (L x W x H)
- **Diagram :**

Front View	Rear View
Side View	**Bottom View**

Figure 2-1 WNAP-W2200 Product Outlook

2.1.1 Panel Layout

The front and rear panel provide a simple interface monitoring the AP. Figure 2-2 shows the hardware interface of WNAP-W2200.

Hardware Interface

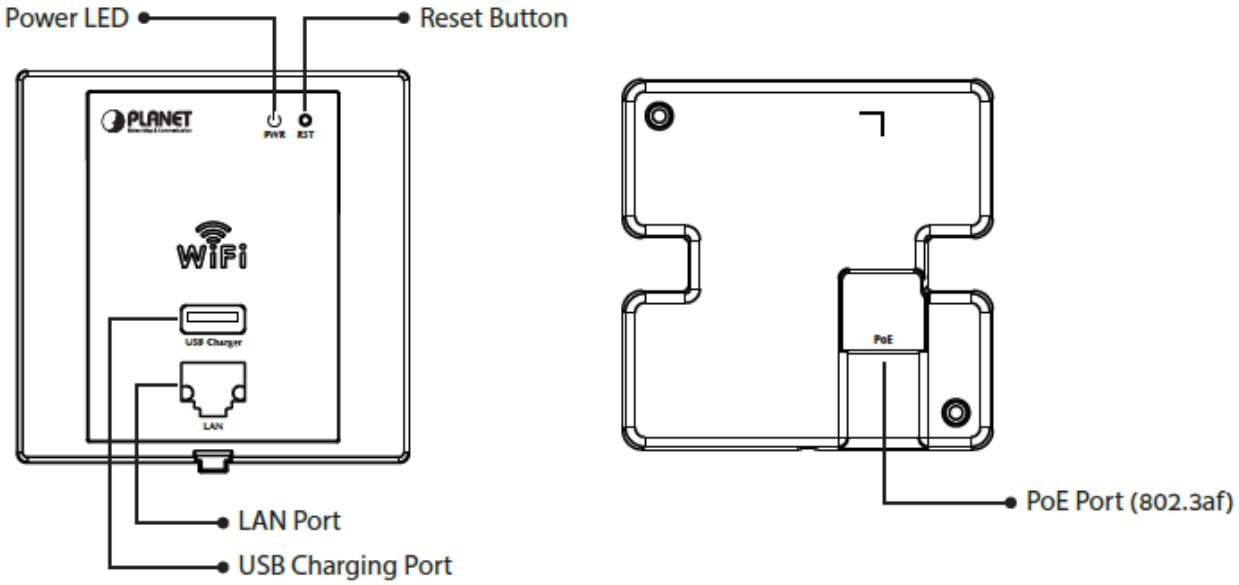


Figure 2-2 WNAP-W2200 Panel Layout

2.1.2 Hardware Description

LED definition

Object			Description
PWR	Green	On	Power on
		Flashing	The system is on and works properly
		Off	Neither Power nor the device is malfunctioned

Button definition

Object	Description
Reset	Press the Reset button over 7 seconds and then release it. The system restores to the factory default settings.

Port definition

Object	Description
PoE Port (802.3af PoE)	10/100Mbps RJ-45 port , Auto MDI/ MDI-X Connect LAN port to the PoE injector to power on the device.
LAN Port	10/100Mbps RJ-45 port , Auto MDI/ MDI-X Connect this port to the network equipment.
USB Port	USB 2.0, Type-A, 5V DC/0.5A Output Connect this port to charge the mobile device.

Chapter 3. Connecting to the AP

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One PoE Switch (supply power to the WNAP-W2200)
- PCs with a working Ethernet Adapter and an Ethernet cable with RJ-45 connectors
- PC of subscribers running Windows 98/ME, NT4.0, 2000/XP, Windows Vista / Win 7, MAC OS 9 or later, Linux, UNIX or other platforms compatible with **TCP/IP** protocols
- The above PC is installed with WEB Browser

Note

1. The AP in the following instructions means PLANET WNAP-W2200.
2. It is recommended to use Internet Explore 7.0 or above to access the AP.

3.2 Installing the AP

Before installing the AP, make sure your PoE Switch is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP. After that, please install the AP according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

Step 1. Follow the figure below to install the WNAP-W2200.
※ The Ethernet cable should not exceed 8cm in length from the end connecting to PoE port to the part that goes through the outlet box.

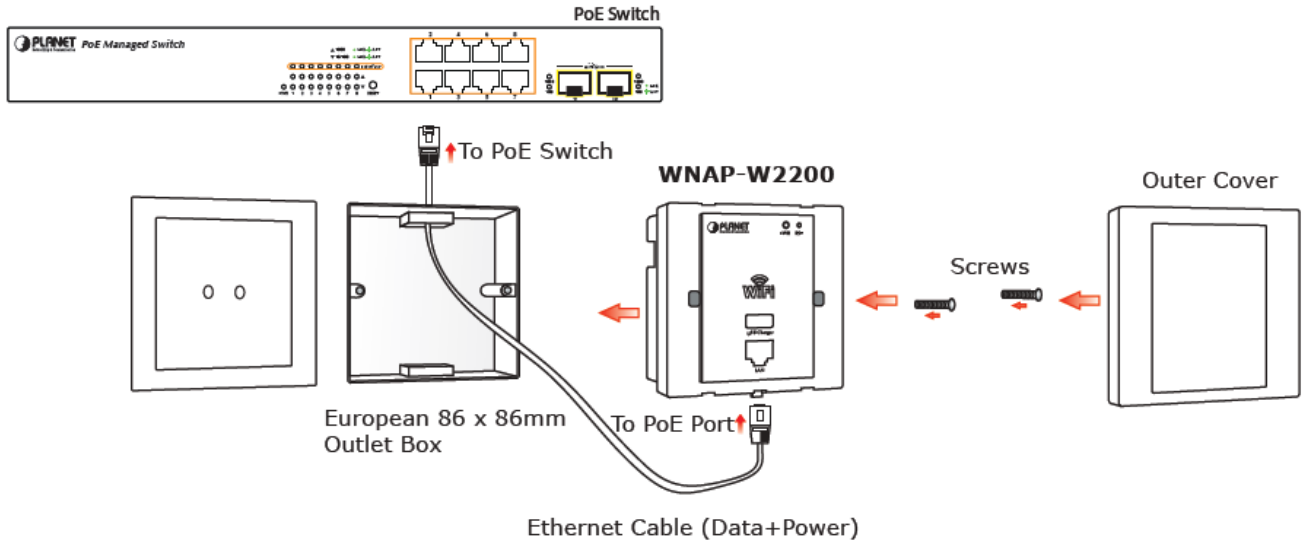
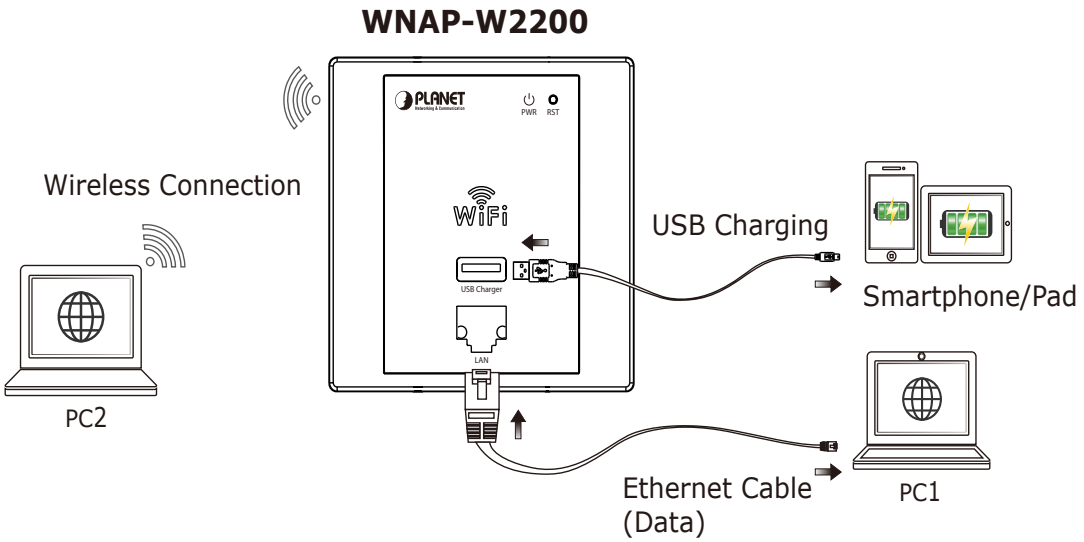


Figure 3-1 WNAP-W2200 Installation Diagram

Step 2. Follow the figure below to connect the network devices.

※ You can charge the mobile equipment through the USB charge port while surfing the Internet.



Chapter 4. Quick Installation Guide

This chapter will show you how to configure the basic functions of your AP within minutes.

A computer with wired Ethernet connection to the Wireless AP is required for the first-time configuration.

4.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the WNAP-W2200 is **192.168.1.253**. And the default Subnet Mask is 255.255.255.0. These values can be changed as you desire. In this guide, we use all the default values for description.

Connect the WNAP-W2200 with your PC by an Ethernet cable plugging in LAN port on one side and in LAN port of PC on the other side. Please power on the WNAP-W2200 by PoE from PoE switch.

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 7**. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter manual if needed.

4.1.1 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is 192.168.1.xxx (if the default IP address of the WNAP-W2200 is 192.168.1.253, and the DSL router is 192.168.1.254, the "xxx" can be configured to any number from 1 to 252), Subnet Mask is 255.255.255.0.

1 Select **Use the following IP address** radio button, and then configure the IP address of the PC.

2 For example, as the default IP address of the WNAP-W2200 is 192.168.1.253 and the DSL router is 192.168.1.254, you may choose from 192.168.1.1 to 192.168.1.252.

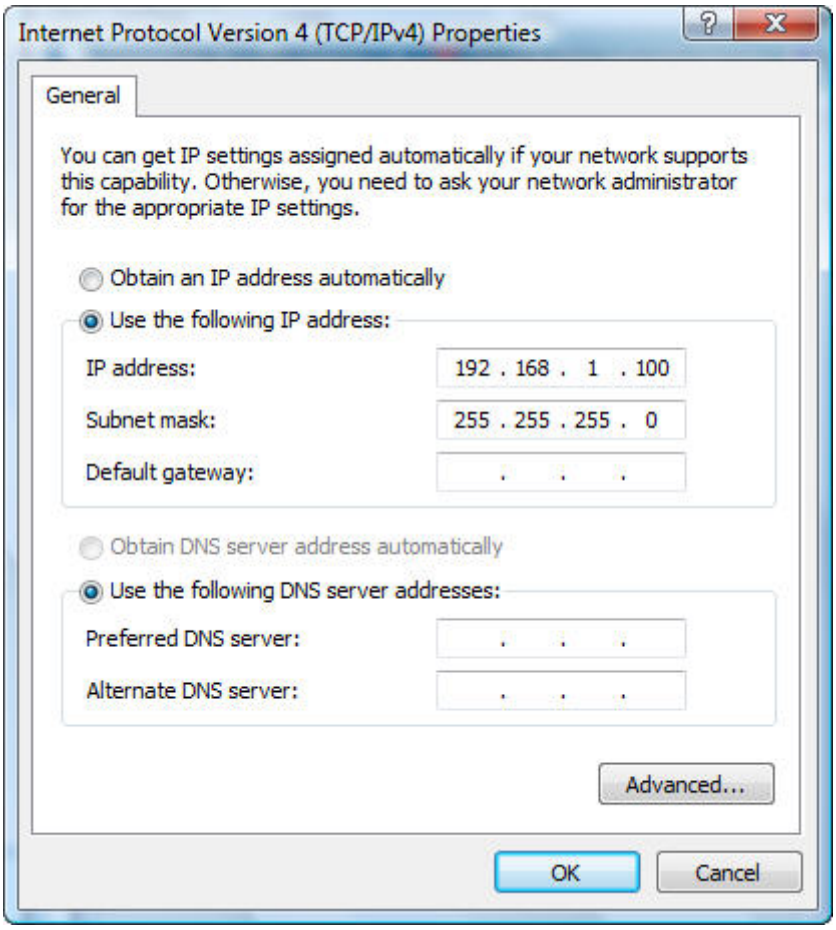

Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 1 . 100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Figure 4-1 TCP/IP Setting

Now click **OK** to save your settings.

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the AP. The following example is in **Windows 7** OS. Please follow the steps below:

1. Click on **Start > Run**.

2. Type "**cmd**" in the Search box.

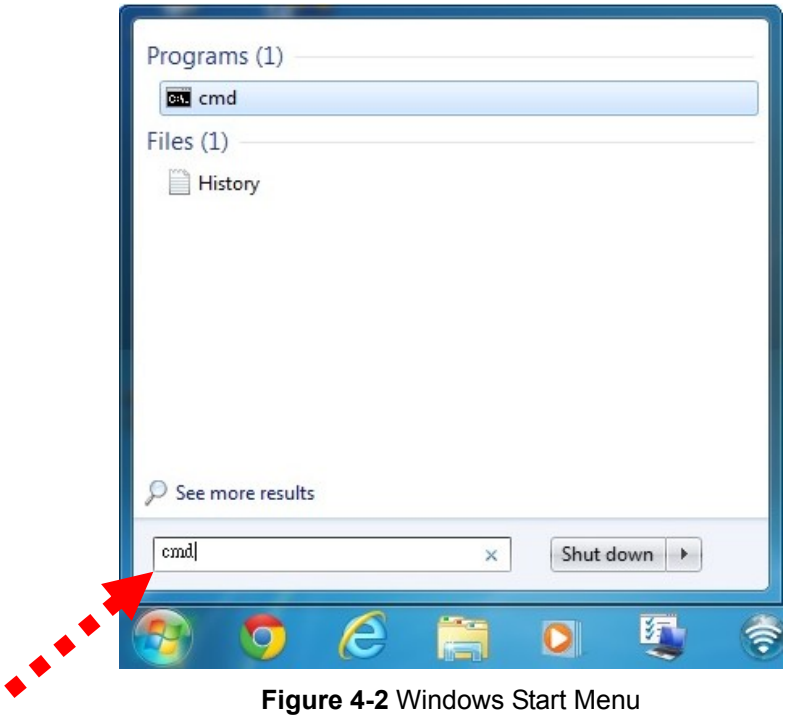


Figure 4-2 Windows Start Menu

3. Open a command prompt, and type ping **192.168.1.253**, and then press **Enter**.

- If the result displayed is similar to **Figure 4-3**, it means the connection between your PC and the AP has been established well.

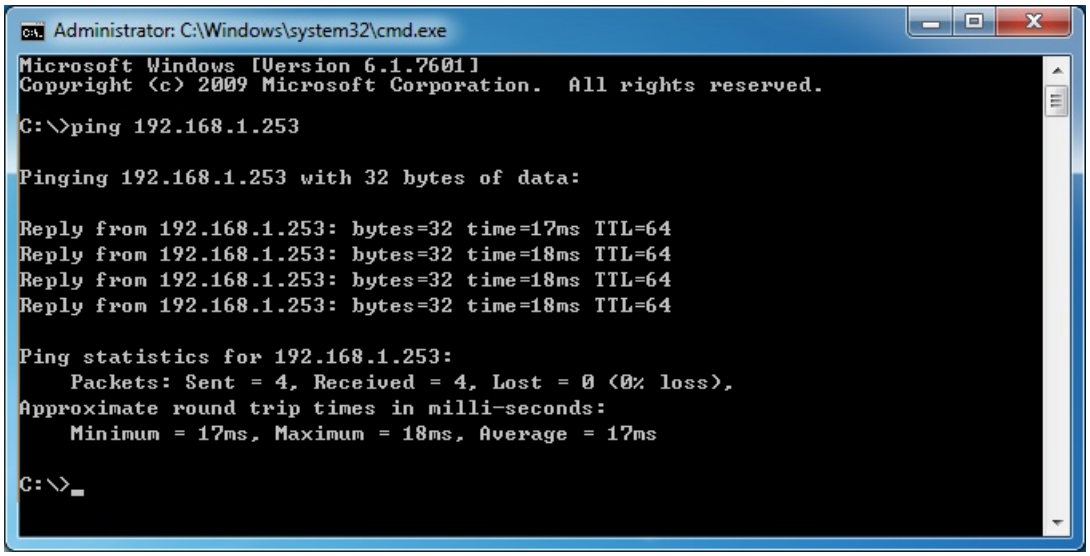

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\>ping 192.168.1.253
Pinging 192.168.1.253 with 32 bytes of data:
Reply from 192.168.1.253: bytes=32 time=17ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64
Ping statistics for 192.168.1.253:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 17ms, Maximum = 18ms, Average = 17ms
C:\>

Figure 4-3 Successful result of Ping command

- If the result displayed is similar to **Figure 4-4**, it means the connection between your PC and the AP has failed.

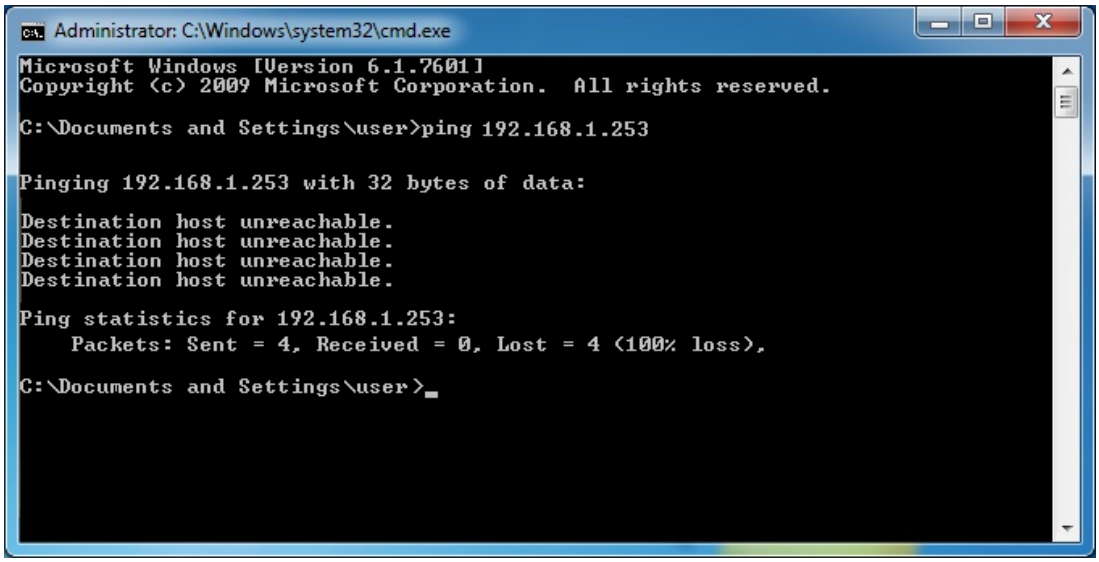

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Documents and Settings\user>ping 192.168.1.253
Pinging 192.168.1.253 with 32 bytes of data:
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Ping statistics for 192.168.1.253:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Documents and Settings\user>

Figure 4-4 Failed result of Ping command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.

4.2 Starting Setup in the Web UI

It is easy to configure and manage the AP with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address http://192.168.1.253 in the web address field of the browser.

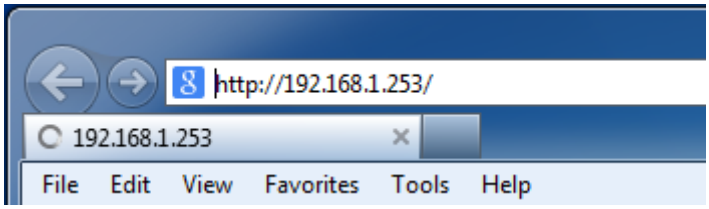


Figure 4-5 Login by default IP address

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **OK** button or press the **Enter** key.

Figure 4-6 Login Window

Default IP Address: **192.168.1.253**

Default User name: **admin**

Default Password: **admin**

Note

If the above screen does not pop up, it may mean that your web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings, in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

Chapter 5. Configuring the AP

This chapter delivers a detailed presentation of AP's functionalities and features under 7 main menus below, allowing you to manage the AP with ease.

Figure 5-1 Main Menu

During operation, if you are not clear about a certain feature, you can simply click the "Help" button to read all related helpful info.

5.1 Status

On this page, you can view information about the current running status of WNAP-W2200, including LAN interface, Wireless interface settings and status, and firmware version information.

■ LAN Status

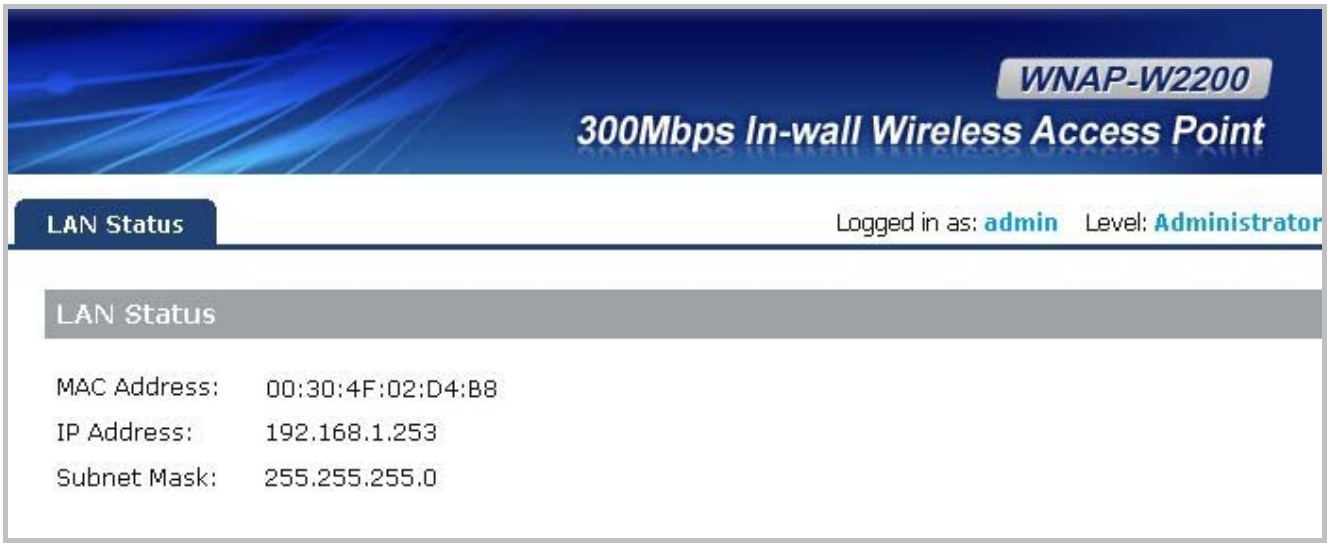


Figure 5-2 LAN Status

This section allows you to view the AP's LAN info listed below:

Object	Description
• **MAC Address:**	Displays AP's LAN MAC address.
• **IP Address:**	Displays LAN IP address.
• **Subnet Mask:**	Displays LAN subnet mask.

■ Wireless

This section allows you to view the wireless info listed below:

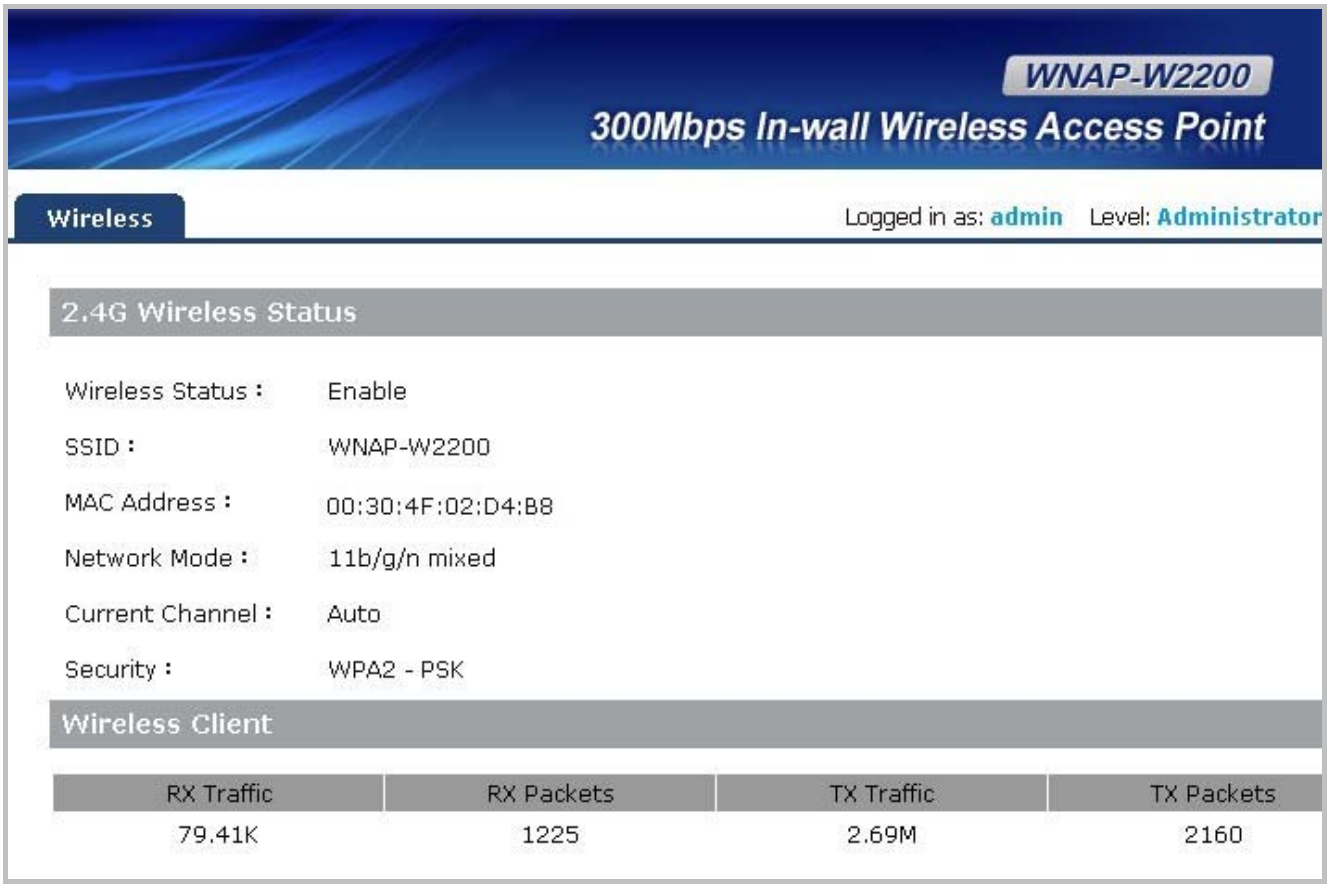


Figure 5-3 Wireless information

The page includes the following fields:

Object	Description
• **Wireless Status:**	Displays whether wireless is enabled or not.
• **SSID:**	Displays current SSID.
• **MAC address:**	Displays MAC address of the AP's wireless interface
• **Network Mode:**	Displays currently active network mode.
• **Current Channel:**	Displays current channel.
• **Security:**	Displays current security Mode.

■ System Info

This section displays system uptime, Firmware version info and Hardware version info.

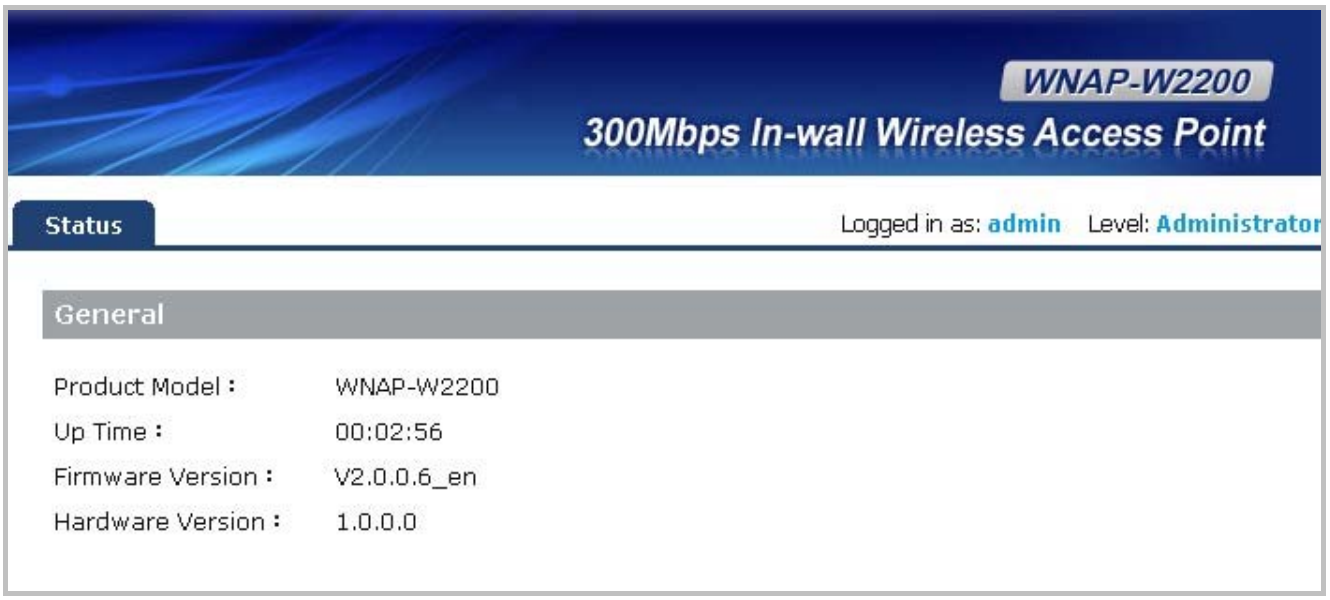


Figure 5-4 General System information

The page includes the following fields:

Object	Description
• **Product Model:**	Displays the Product Model
• **Up Time:**	Displays uptime.
• **Firmware Version:**	Displays AP's firmware version.
• **Hardware Version:**	Displays AP's hardware version.

5.2 Basic

"**Basic**" setting page includes the LAN setting.

5.2.1 LAN Settings

On the LAN Settings page, you can configure the IP parameters of the LAN on the screen as shown below.

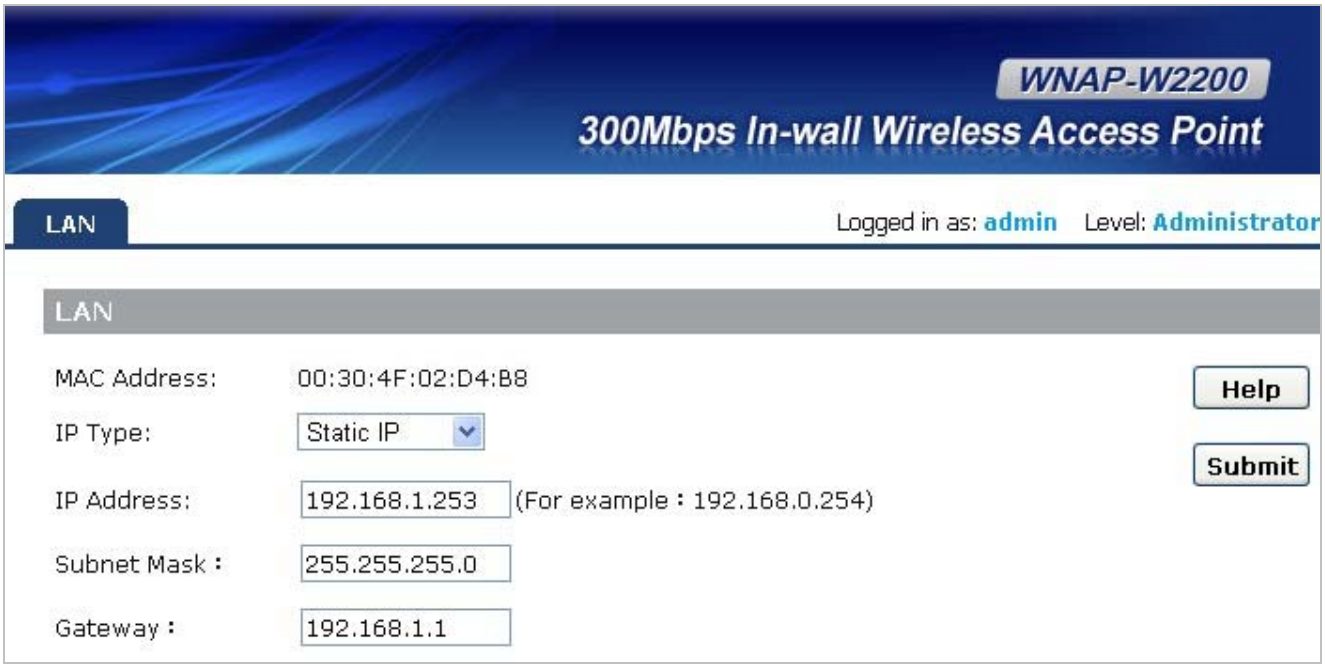


Figure 5-5 LAN settings

The page includes the following fields:

Object	Description	
• **MAC address:**	Displays MAC address of the AP's LAN interface	
• **IP Type:**	**Static IP**	Specify a static IP address, subnet mask, default gateway and DNS server for WNAP-W2200 manually. Make sure the specified IP address is unique on your network in order to prevent IP conflict.
	Dynamic	If a DHCP server exists in your network, you can select this option, thus the WNAP-W2200 is able to obtain IP settings automatically from that DHCP server.
• **IP Address:**	Enter the IP address of your AP or reset it in dotted-decimal notation (factory default: **192.168.1.253**).	
• **Subnet Mask:**	An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.	
• **Gateway:**	(Optional.) Suggest to input the IP address of the LAN port of the Router, default value is 192.168.1.1	

Note	1. If you change the IP Address of LAN, you must use the new IP Address to login the AP. 2. When the IP address of the WNAP-W2200 is changed, the clients on the network often need to wait for a while or even reboot before they can access the new IP address. For an immediate access to the AP, please flush the netbios cache on the client computer by running the "nbtstat –r" command before using the device name of the WNAP-W2200 to access its Web Management page.

5.3 WLAN Settings

The Wireless menu contains submenus of the settings about wireless network. Please refer to the following sections for the details.

5.3.1 Basic

Choose menu "**Wireless Settings → Basic**", and you can configure the basic settings for the wireless network on this page. After configuration is done, please click the "Apply" button to save the settings.

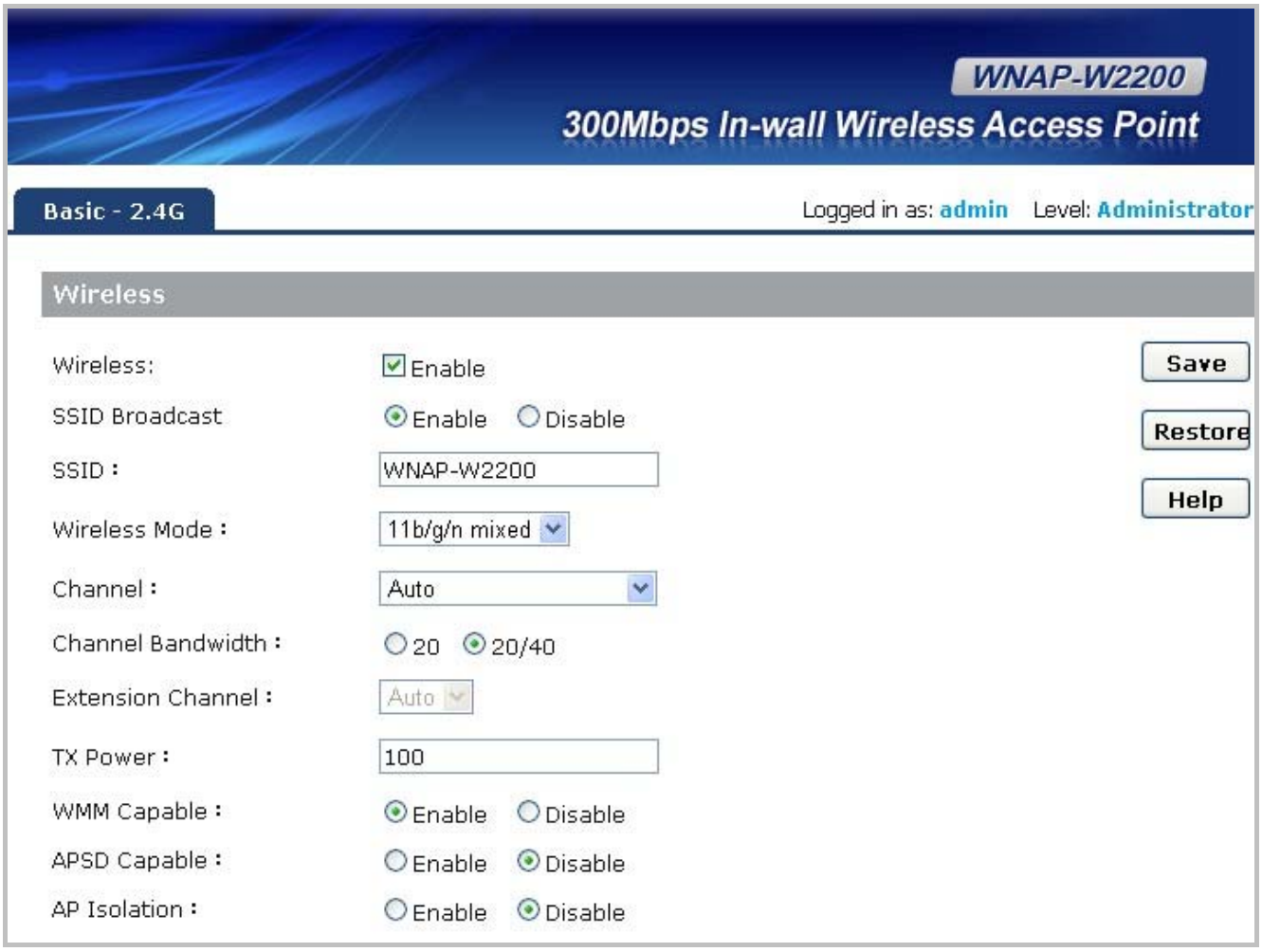


Figure 5-6 Wireless Basic Settings

The page includes the following fields:

Object	Description	
• **Wireless Enable:**	Click “Enable” to enable the wireless signal.	
• **Broadcast(SSID):**	When you select “Disable SSID broadcast”, AP will not broadcast its own SSID. If there is a wireless connection request, you need to input SSID manually.	
• **SSID:**	SSID (Service Set Identifier) is the unique name of the wireless network. It is recommended to modify this name for wireless client to recognize wireless signals.	
• **Wireless Mode:**	**11b/g Mixed Mode**	Allow the 11b/g-compliant client device to connect with the AP with auto-negotiation speed, and 11n wireless client to connect the device with 11g speed.
	11b Mode	Allow the wireless client to connect with the device in 11b mode at the maximum speed of 11Mbps.
	11g Mode	Allow the 11g/11n-compliant client device to connect with the AP at the maximum speed of 54Mbps.
	11b/g/n Mixed Mode	Allow 11b/g/n-compliant client device to connect with the AP with auto- negotiation speed. The maximum speed is 300Mbps.
• **Channel:**	Specify the effective channel (from 1 to 13 or set to Auto) of the wireless network.	
• **Channel Bandwidth:**	Select the proper channel bandwidth to improve the wireless performance. 20M bandwidth can improve the anti-jamming ability of the wireless device. 40M bandwidth can improve the flux of 11N client.	
• **Extension Channel:**	To increase data throughput of wireless network, the extension channel range is used in 11n mode.	
• **TX Power:**	Set the wireless output power level. The default value is **100**.	
• **WMM Capable:**	To enhance wireless multimedia transfer performance (on-line video and voice). If you are not clear about this, enable it.	
• **APSD Capable:**	It is used for auto power-saved service. The default is disabled.	
• **AP Isolation:**	The access control feature based on wireless MAC address. When this feature is enabled, each of your wireless clients will be in its own virtual network and will not be able to communicate with each other. This feature is to isolate the communication of wireless clients connected with a different AP.	

5.3.2 Security

You can configure the security settings for the wireless network on this page.

Figure 5-7 Wireless Security Settings

There are following encryption types in AP-Security Mode.

Object	Description	
• **AP-Security Mode:**	**Disable**	The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect to the AP without encryption. It is recommended strongly that you choose one of following options to enable security.
	WPA-PSK	It is a simplified WPA mode with no need for specific authentication server. In this so-called WPA Pre-Shared Key, all you have to do is just pre-enter a key in each WLAN node and this is the common way to be adopted in large and middle enterprise as well as residential network.
	WPA2-PSK	As a new version of WPA, only all the clients support WPA2, can it be available. If it is selected, the data encryption can only be AES and the passphrase is required.
	Mixed WPA/WPA2-PSK	It provides options of WPA (TKIP) or WPA2 (AES) encryption for the client. If it is selected, the data encryption can only be TKIP + AES and the passphrase is required.

Open Mode	It allows any device to join the network without performing any security check.
Shared Mode	Data encryption and key are required for wireless authentication.
WEP Mixed Mode	WEP (Wired Equivalent Privacy), a basic encryption method, usually encrypts wireless data using a series of digital keys (64 bits or 128 bits in length). By using the same keys on each of your wireless network devices, you can prevent unauthorized wireless devices from monitoring your transmissions or using your wireless resources. WEP is based on RSA algorithm from RC4. It is the original and weak encryption method, so it is recommended not to use this method.
WPA-Enterprise	With warrant (username, password and etc.) offered by user, this kind of authentication can be realized with specific RADIUS server. This is the common way to be adopted in large enterprise network.
WPA2-Enterprise	You can use a RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently.
Mixed WPA/WPA2-Enterprise	It provides options of WPA (TKIP) or WPA2 (AES) for the client. If it is selected, the data encryption type must be TKIP + AES and the RADIUS server must be set.
802.1X	This security mode is used when a RADIUS server is connected to the device. 802.1x, a kind of Port-based authentication protocol, is an authentication type and strategy for users. The port can be either a physic port or logic port (such as VLAN). For wireless LAN users, a port is just a channel. The final purpose of 802.1x authentication is to check if the port can be used. If the port is authenticated successfully, you can open this port which allows all the messages to pass. If the port isn't authenticated successfully, you can keep this port "disable" which just allows 802.1x authentication protocol message to pass.

5.3.3 Wireless Access Control

Choose menu "**WLAN Settings → Wireless Access Control**", you can choose to allow or deny the computer of specified MAC address to wirelessly connect with the WNAP-W2200 on this page. After configuration is done, please click the "Apply" button to save the settings.

Figure 5-8 Wireless Access Control

The page includes the following fields:

Object	Description
• **SSID:**	Display the current SSID.
• **MAC Restrict Mode:**	You can choose to set the Allow, Deny or disable this function.
• **MAC Address:**	Enter the MAC address you want to allow or deny to connect to the WNAP-W2200 in the field. Then, click "Add" to add the MAC address to the control list.
• **Current Access Control List:**	You can select some MAC address, and click the "Delete" button to delete it.

To deny a PC at the MAC address of 00:30:4f:11:22:33 to connect to your wireless network, do as follows:

Step 1. Select "**Deny**" from MAC Address Filter drop-down menu.

Step 2. Enter 00:30:4f:11:22:33 in the MAC address box and click "**Add**".

Step 3. Click the "**Save**" button to save your settings and you can add more MAC addresses, if you like, simply repeat the above steps.

5.4 SNMP Setting

Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is widely used in local area networks (LAN) for collecting information, and managing and monitoring network devices, such as servers, printers, hubs, switches, and routers from a management host.

Managed devices that support SNMP including software are referred to as an SNMP agent, which usually interacts with third-party SNMP management software to enable the sharing of network status information between monitored devices and applications and the SNMP management system.

A defined collection of variables (managed objects) are maintained by the SNMP agent and used to manage the device. These objects are defined in a **Management Information Base (MIB)**, which provides a standard presentation of the information controlled by the on-board SNMP agent. SNMP defines both the format of the MIB specifications and the protocol used to access this information over the network.

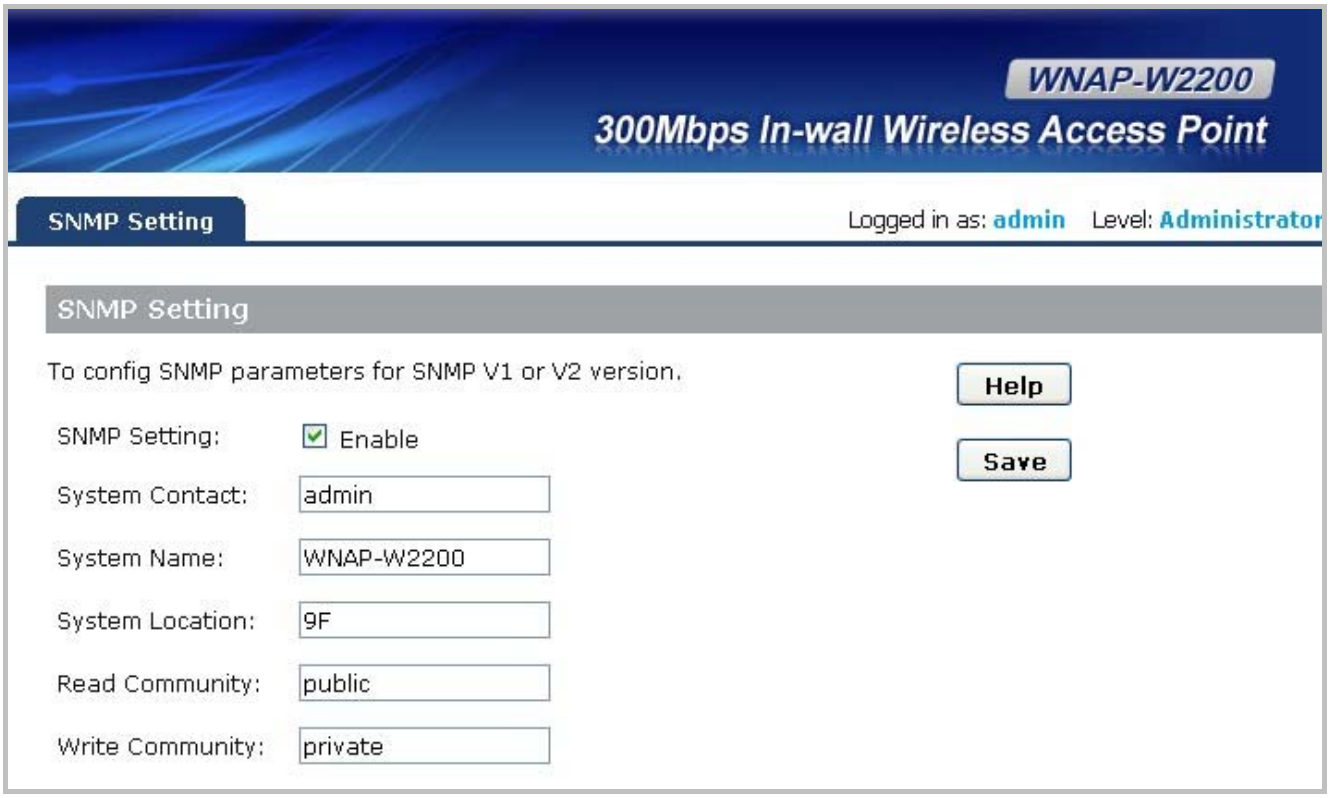


Figure 5-9 SNMP Setting

This device supports SNMP v1 and SNMP v2c. Please click "**SNMP**" in the Menu to enter this page.
Click "**Enable**" to enable the SNMP management.

The page includes the following fields:

Object	Description
• **System Contact:**	Set the name to access the AP. Usually set the administrator's name.
• **System Name:**	Set the AP's name, such as "**WNAP-W2200**".
• **System Location:**	Set the AP's network location.
• **Read Community:**	Indicates the community read access string to permit reading this AP's SNMP information. The default is **Public**.
• **Write Community:**	Indicates the community write access string to permit reading and re-writing this AP's SNMP information. The default is **Private**.

5.5 MAC Filter

5.5.1 MAC Filter Setting

To better manage PCs in LAN, you can use the MAC Address Filter function to allow/disallow such PCs to access the internet via the WNAP-W2200.

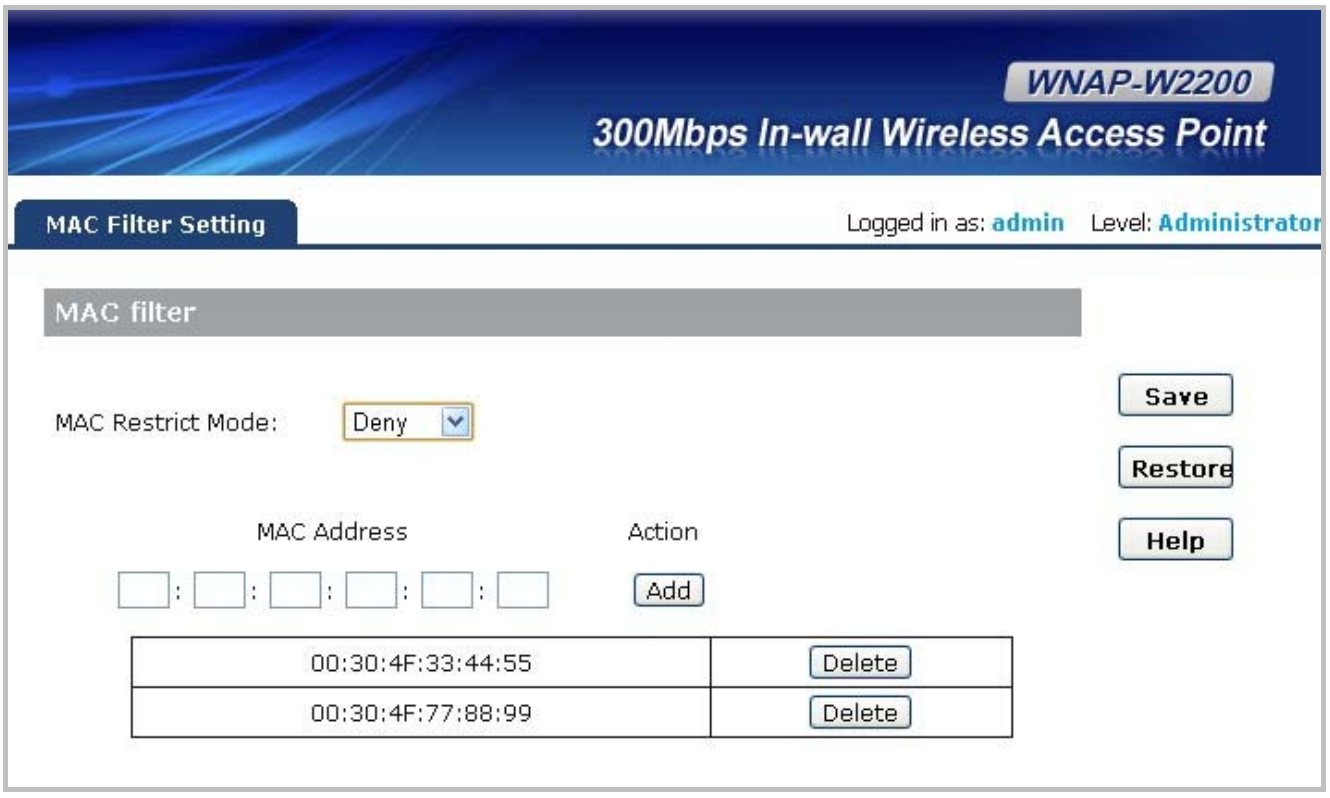


Figure 5-10 MAC Filter Setting

The page includes the following fields:

Object	Description
• **SSID:**	Display the current SSID.
• **MAC Restrict Mode:**	You can choose to set the Allow, Deny or disable this function.
• **MAC Address:**	Enter the MAC address you want to allow or deny to connect to the WNAP-W2200 in the field. Then, click “Add” to add the MAC address to the control list.
• **Current Access Control List:**	You can select some MAC address, and click the “Delete” button to delete it.

5.6 System Tools

This section focuses on how to maintain AP, including Restore to Factory Default Setting, Backup/Restore, Firmware Upgrade, Reboot, Password Change, Syslog.

5.6.1 Firmware Upgrade

Firmware upgrade is released periodically to improve the functionality of your device and also to add new features. If you run into a problem with a specific feature of the device, log on to our website www.planet.com.tw to download the latest firmware to update your device.

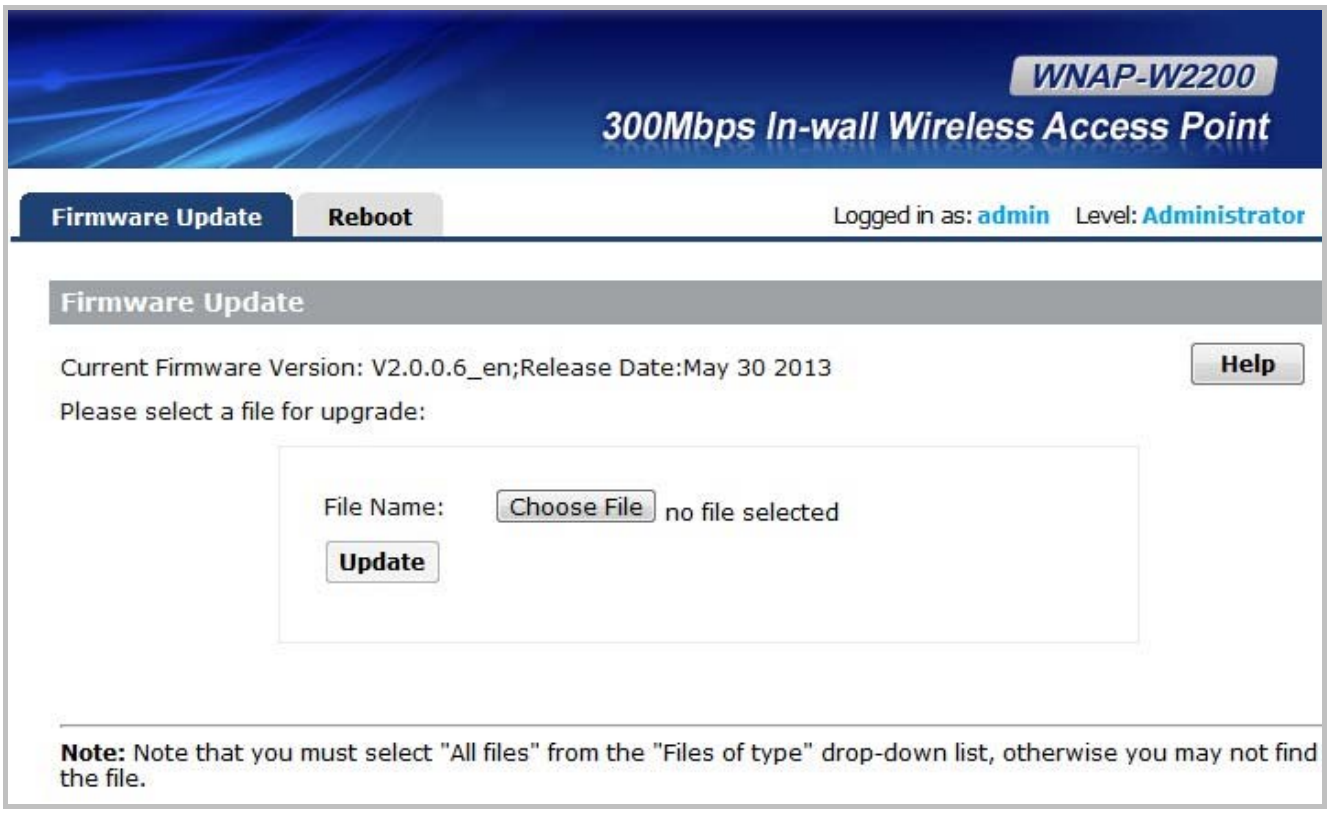

WNAP-W2200
300Mbps In-wall Wireless Access Point
Firmware Update
Reboot
Logged in as: admin Level: Administrator
Firmware Update
Current Firmware Version: V2.0.0.6_en;Release Date:May 30 2013
Help
Please select a file for upgrade:
File Name:
Choose File
no file selected
Update
Note: Note that you must select "All files" from the "Files of type" drop-down list, otherwise you may not find the file.

Figure 5-11 Firmware Upgrade

To update firmware, do as follows:

1. Click "**Choose file**" to locate the firmware and "**Update**" to upgrade.
2. AP will reboot automatically when upgrade completes.

Note

Do not disconnect the device from your management PC (the PC you use to configure the device) or power off it during the upgrade process; otherwise, it may be permanently damaged. The device will restart automatically when the upgrade process, which takes several minutes, completes.

5.6.2 Reboot

This page is used to reboot wireless access point. Rebooting the device makes the settings configured go into effect.

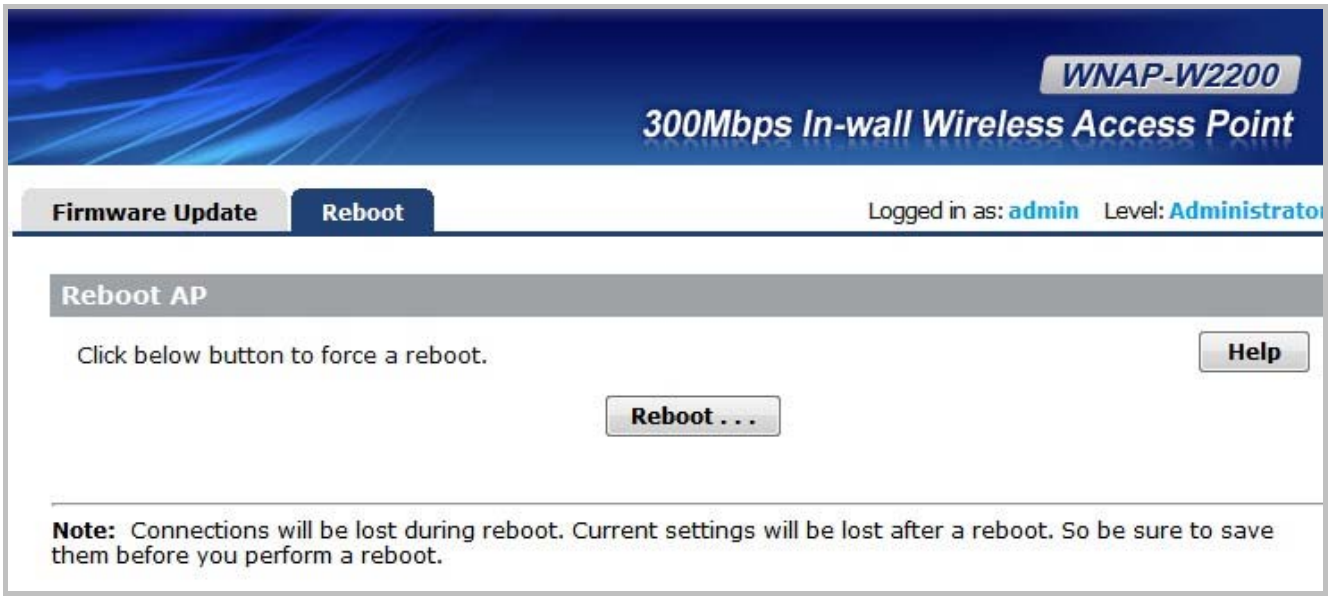

WNAP-W2200
300Mbps In-wall Wireless Access Point
Firmware Update
Reboot
Logged in as: admin
Level: Administrato
Reboot AP
Click below button to force a reboot.
Help
Reboot . . .
Note: Connections will be lost during reboot. Current settings will be lost after a reboot. So be sure to save them before you perform a reboot.

Figure 5-12 Reboot

- **Reboot**: Click this button to reboot the device.

5.6.3 Logs

The section is to view the system log. Click the “Refresh” to update the log. Click “Clear” to clear all shown information. If the log is over 150 records, it will clear them automatically.

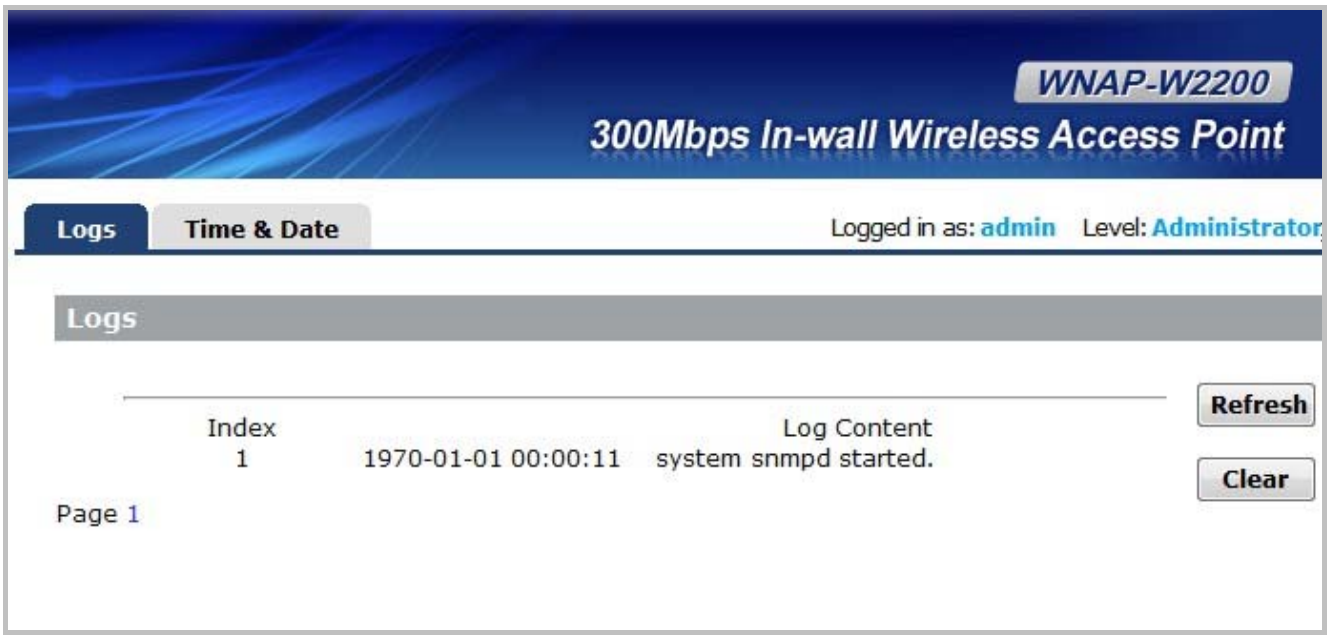


Figure 5-13 System Log

- **Refresh:** Click this button to update the log.
- **Clear:** Click this button to clear the current log.

5.6.4 Time & Date

This section assists you in setting the Wireless AP's system time. You can either select to set the time and date manually or automatically obtain the GMT time from Internet.

Choose menu "**System Tools→ Logs-> Time & Date**" to configure the system time. You can also maintain the system time by synchronizing with a public time server over the Internet. After the configuration, please click the "OK" button to save the settings.

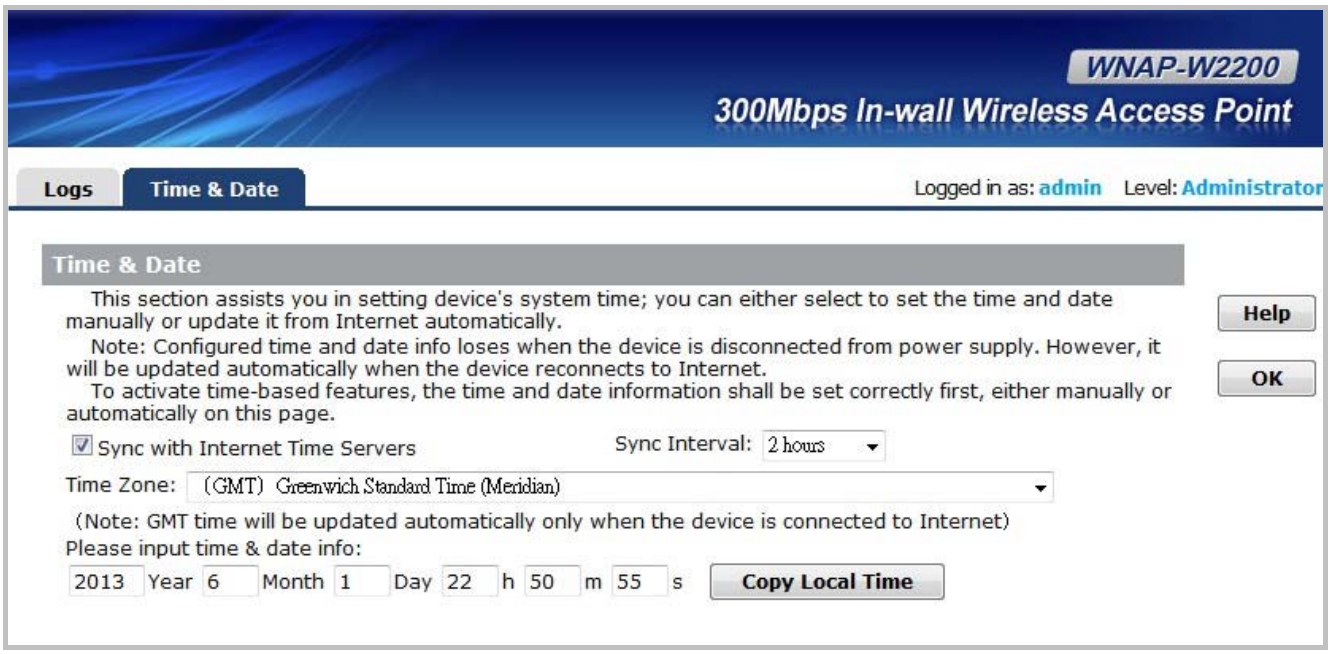

WNAP-W2200
300Mbps In-wall Wireless Access Point
Logs
Time & Date
Logged in as: admin Level: Administrator
Time & Date
This section assists you in setting device's system time; you can either select to set the time and date manually or update it from Internet automatically.
Note: Configured time and date info loses when the device is disconnected from power supply. However, it will be updated automatically when the device reconnects to Internet.
To activate time-based features, the time and date information shall be set correctly first, either manually or automatically on this page.
Help
OK
Sync with Internet Time Servers
Sync Interval: 2 hours
Time Zone: (GMT) Greenwich Standard Time (Meridian)
(Note: GMT time will be updated automatically only when the device is connected to Internet)
Please input time & date info:
2013 Year 6 Month 1 Day 22 h 50 m 55 s
Copy Local Time

Figure 5-14 Time & Date Setting

The page includes the following fields:

Object	Description
• **Sync with Internet Time Servers:**	Select it to update the system time by synchronizing with a public time server over the Internet.
• **Sync Interval:**	Configure the interval of synchronizing time.
• **Time Zone Select:**	Select the time zone of the country you are currently in. The router will set its time based on your selection.
• **Please input time & date info:**	Input current time manually.
• **Copy Local Time:**	Copy local time to the system.
• **NTP Server:**	User may select prefer NTP sever or input address of NTP server manually.

Note

The configured time and date settings are lost when the Wireless AP is powered off.

5.6.5 Configuration Management

This section allows you to backup current settings or to restore the previous settings configured on the device. Choose menu "**System Tools→ Backup Settings-> Configuration Management**" to back up or reset the configuration of the WNAP-W2200.

Once you have configured the Wireless AP the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your Wireless AP in case the device is restored to factory default settings.

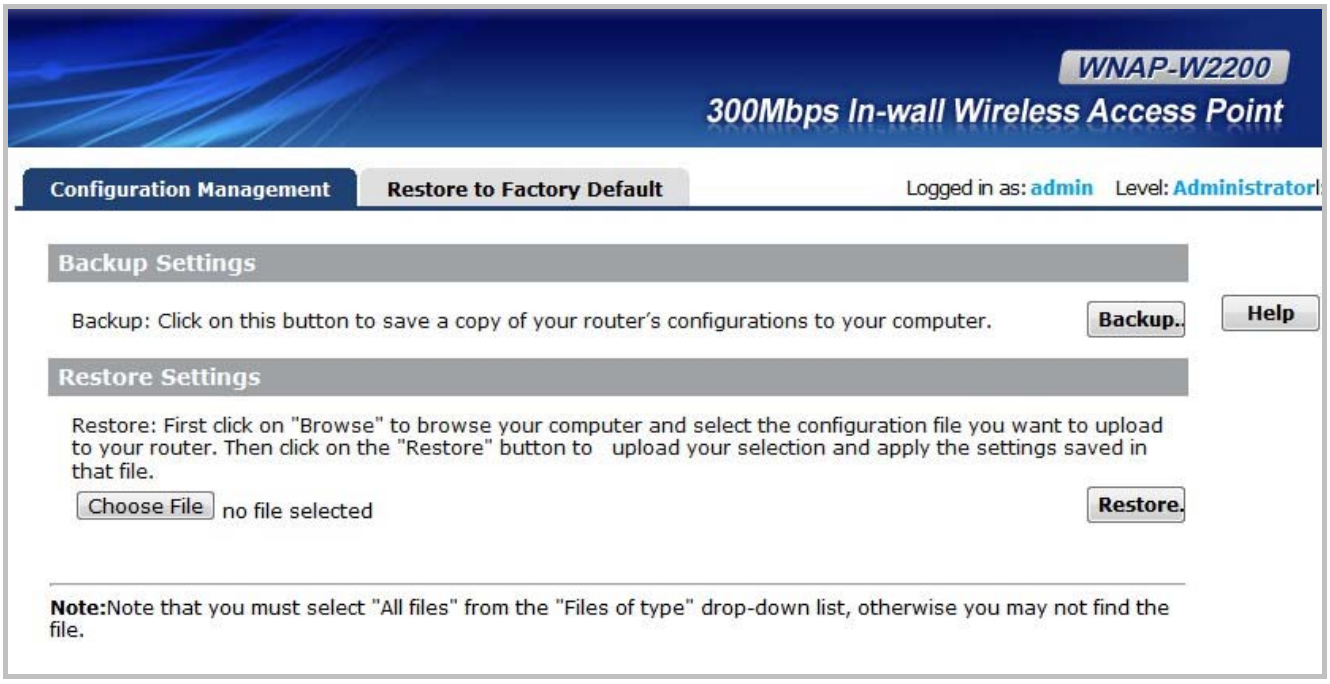

WNAP-W2200
300Mbps In-wall Wireless Access Point
Configuration Management
Restore to Factory Default
Logged in as: admin Level: Administrator
Backup Settings
Backup: Click on this button to save a copy of your router's configurations to your computer.
Backup.
Help
Restore Settings
Restore: First click on "Browse" to browse your computer and select the configuration file you want to upload to your router. Then click on the "Restore" button to upload your selection and apply the settings saved in that file.
Choose File
no file selected
Restore.
Note:Note that you must select "All files" from the "Files of type" drop-down list, otherwise you may not find the file.

Figure 5-15 Configuration Management

The page includes the following fields:

Object	Description
Backup:	Once you have configured the device the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your device in case that the device is restored to factory default settings. To do this, click the "**Backup**" button and specify a directory to save settings on your local hardware.
Restore:	Click the "Choose File" button to locate and select a configuration file that is saved previously to your local hard drive. And then click the "Restore" button to reset your device to previous settings.

5.6.6 Restore to Factory Default

This section is to reset all configurations to the default values. It means the device will lose all the settings you have set.

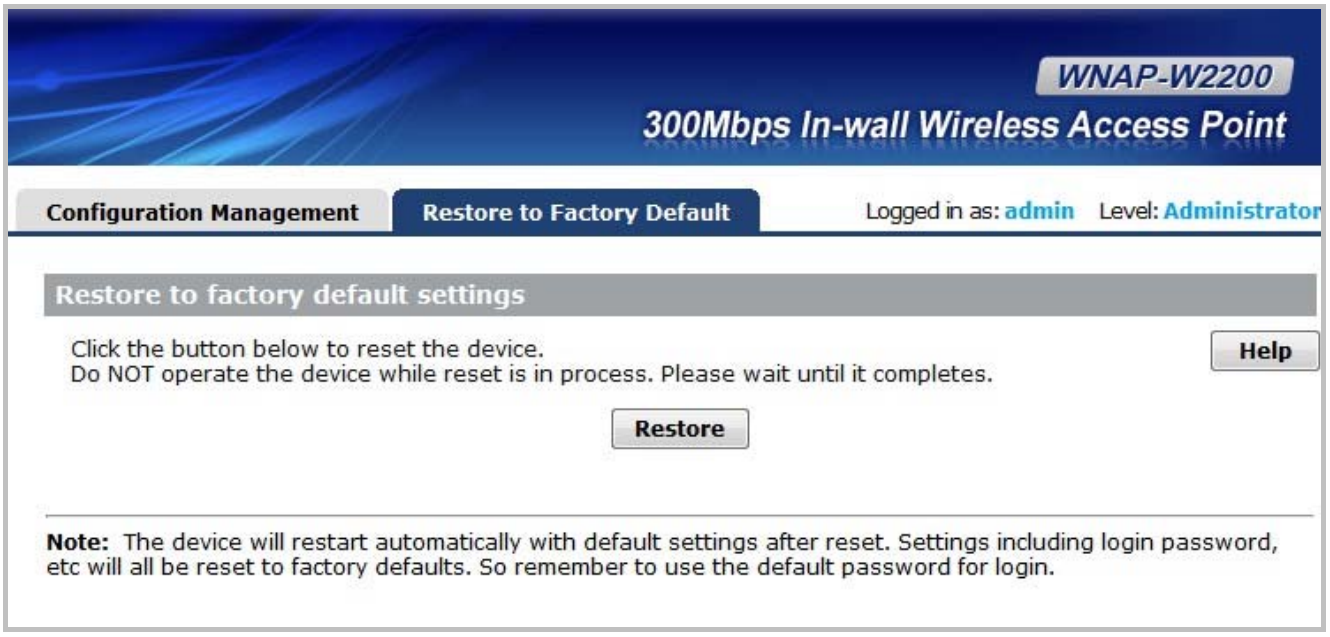

WNAP-W2200
300Mbps In-wall Wireless Access Point
Configuration Management
Restore to Factory Default
Logged in as: admin Level: Administrator
Restore to factory default settings
Click the button below to reset the device.
Do NOT operate the device while reset is in process. Please wait until it completes.
Help
Restore
Note: The device will restart automatically with default settings after reset. Settings including login password, etc will all be reset to factory defaults. So remember to use the default password for login.

Figure 5-16 Restore to Factory Default

- **Restore**: Click this button to restore to default settings.
- **Factory Default Settings:**

  User name: admin

  Password: admin

  IP Address: 192.168.1.253

  Subnet Mask: 255.255.255.0

  SSID: WNAP-W2200_XXXXXX ("X" means the last 6 digits of the MAC address)

  Wireless Encryption Type: None

5.6.7 Set Password

To ensure the Wireless AP's security, you will be asked for your password when you access the Wireless AP's Web-based Utility. The default user name and password is "admin". This page will allow you to add or modify the user name and password.

Choose menu "**System Tools→ Set Password-> User Management**" to change the user name and password which is inputted to access the web UI of the WNAP-W2200.

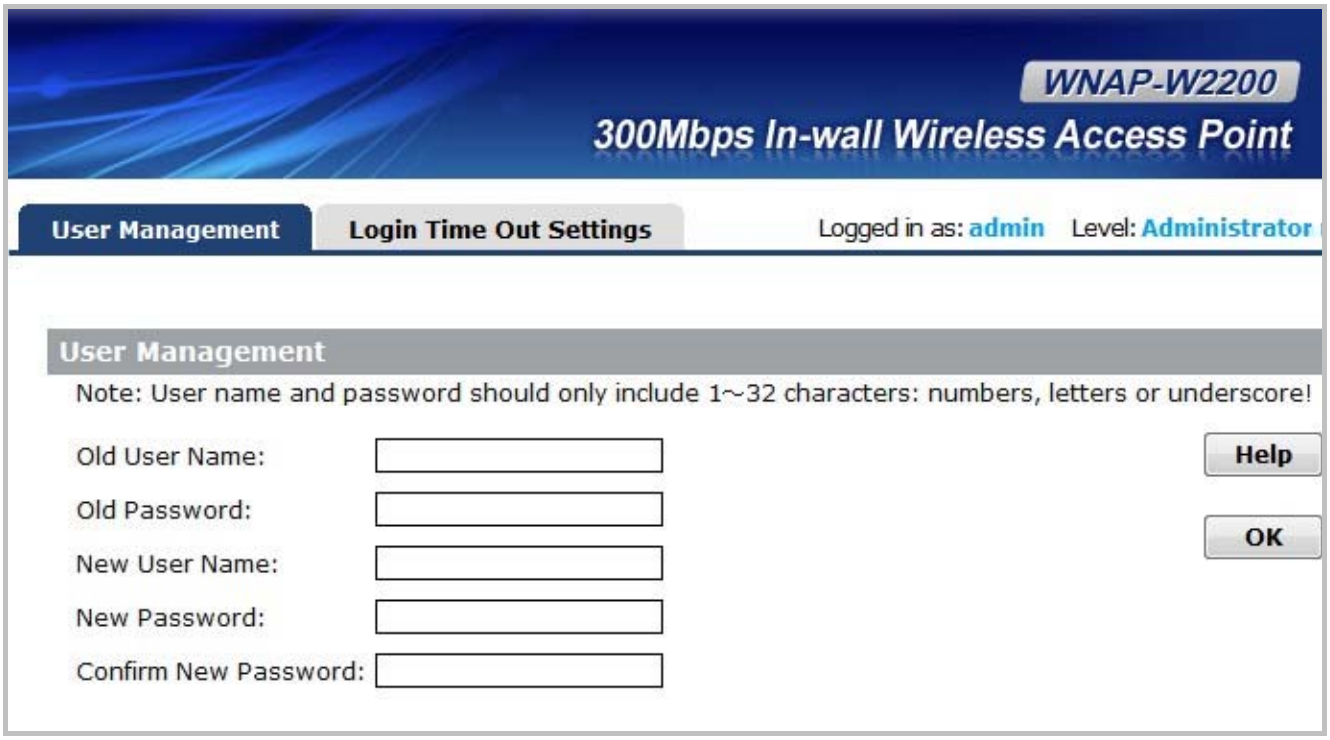


Figure 5-17 Setting Login Password

The page includes the following fields:

Object	Description
• **Old User Name:**	Enter the old user name.
• **Old Password:**	Enter the old password.
• **New User Name:**	Enter the new user name.
• **New Password:**	Enter the new password.
• **Confirm New Password:**	Confirm the new password again.

Note

For the sake of security, it is highly recommended that you change default login password and user name.

5.6.8 Login Time Out Settings

This section is used to set the login timeout, once configured, the system will be automatically logout according to your login timeout value. To login, you will need to re-enter your user name and password.

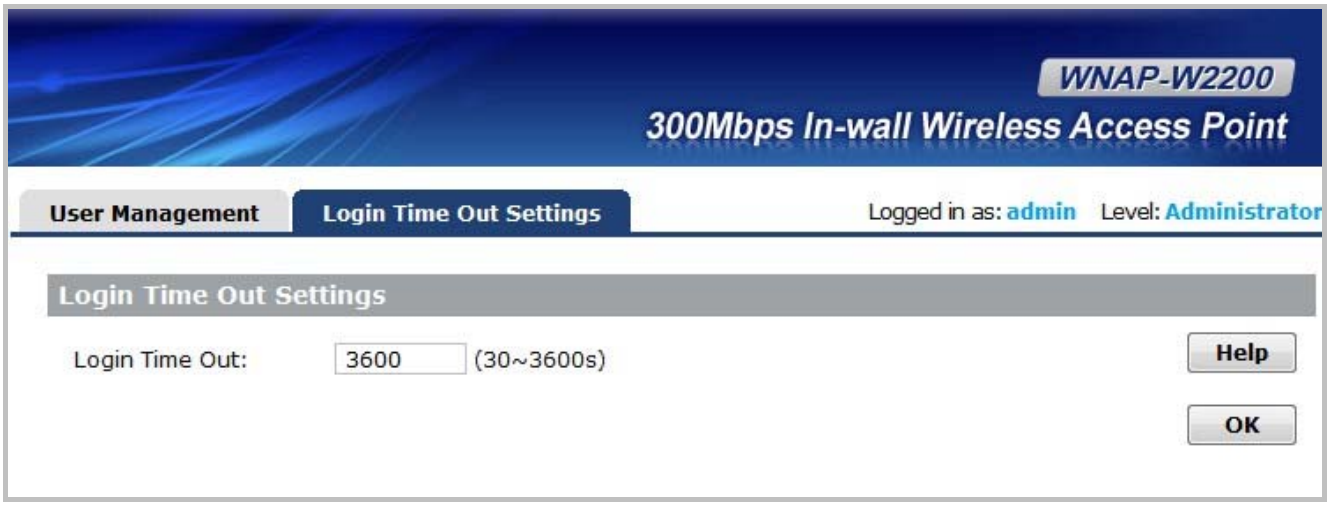


Figure 5-18 Login Time Out Settings

To modify the default Login Time Out value, please enter the value within the range of 30~3600 seconds.

5.6.9 Exit

To logout the WNAP-W2200, please select “Exit” from the left-side menu.

Chapter 6. Quick Connection to a Wireless Network

In the following sections, the **default SSID** of the WNAP-W2200 is configured to "**default**".

6.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-Click on the **wireless network icon** displayed in the system tray

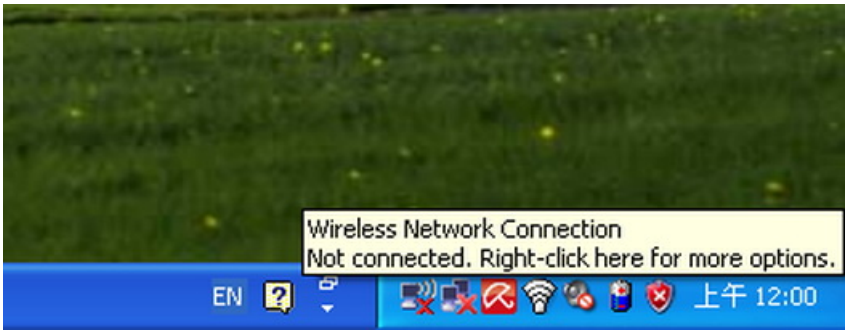


Figure 6-1 System Tray – Wireless Network Icon

Step 2: Select [**View Available Wireless Networks**]

Step 3: Highlight and select the wireless network (SSID) to connect

(1) Select SSID [default]

(2) Click the [**Connect**] button

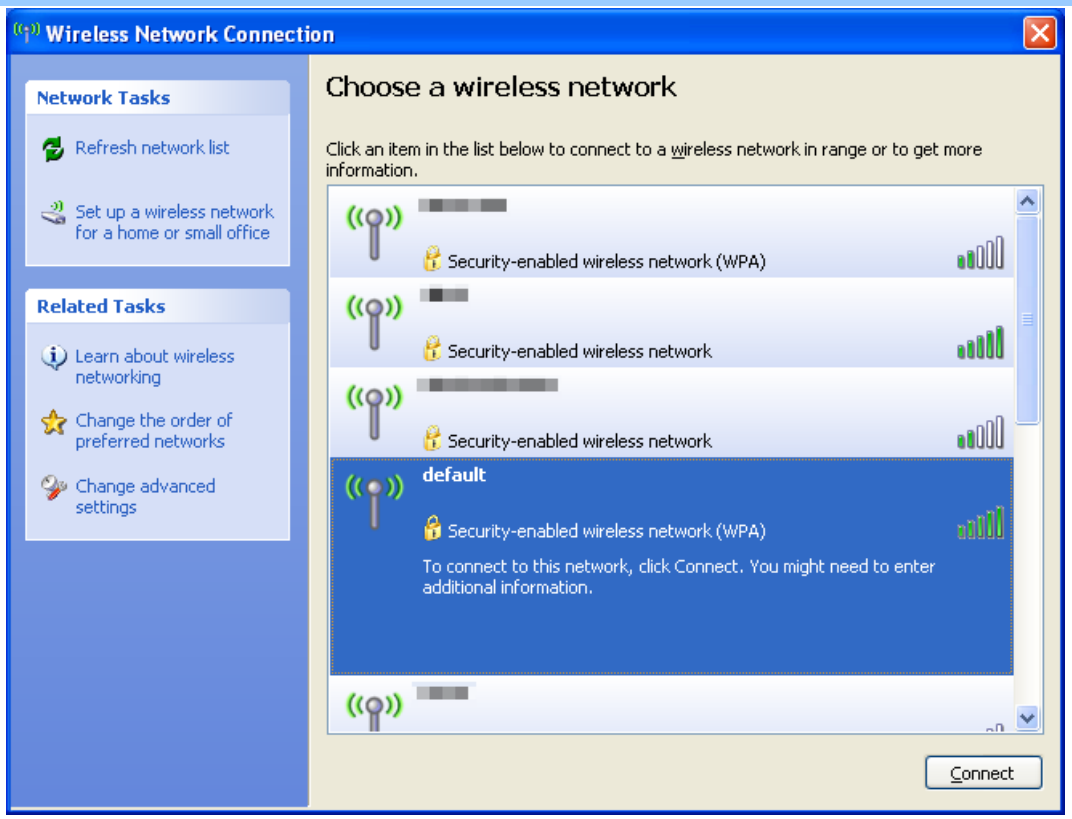

Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
Security-enabled wireless network (WPA)
Security-enabled wireless network
Security-enabled wireless network
default
Security-enabled wireless network (WPA)
To connect to this network, click Connect. You might need to enter additional information.
Connect

Figure 6-2 Choose a wireless network

Step 4: Enter the **encryption key** of the Wireless AP

(1) The Wireless Network Connection box will appear

(2) Enter the encryption key that configured in section 5.3.2

(3) Click the [Connect] button

Wireless Network Connection
The network 'PLANET' requires a network key (also called a WEP key or WPA key).
A network key helps prevent unknown intruders from connecting to this network.
Type the key, and then click Connect.
Network key:
Confirm network key:
Connect
Cancel

Figure 6-3 Enter the network key

Step 5: Check if "**Connected**" is displayed

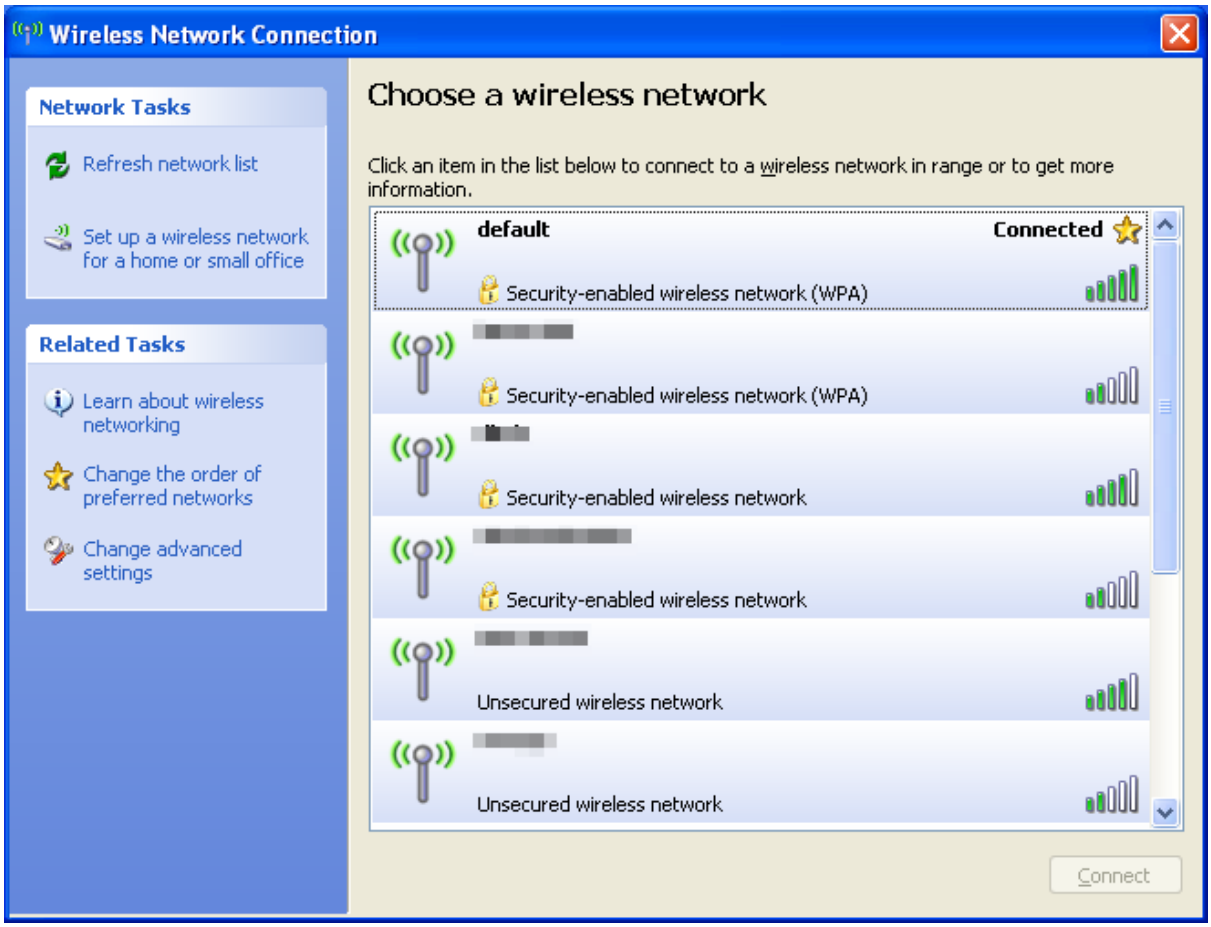

Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
default
Connected
Security-enabled wireless network (WPA)
Security-enabled wireless network (WPA)
Security-enabled wireless network
Security-enabled wireless network
Unsecured wireless network
Unsecured wireless network
Connect

Figure 6-4 Choose a wireless network -- Connected

Note

Some laptops are equipped with an “Wireless ON/OFF” switch for the internal wireless LAN. Make sure the hardware wireless switch is switch to “ON” position.

6.2 Windows 7 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-Click on the **network icon** displayed in the system tray

Figure 6-5 Network icon

Step 2: Highlight and select the wireless network (SSID) to connect

(1) Select SSID [**default**]

(2) Click the [**Connect**] button

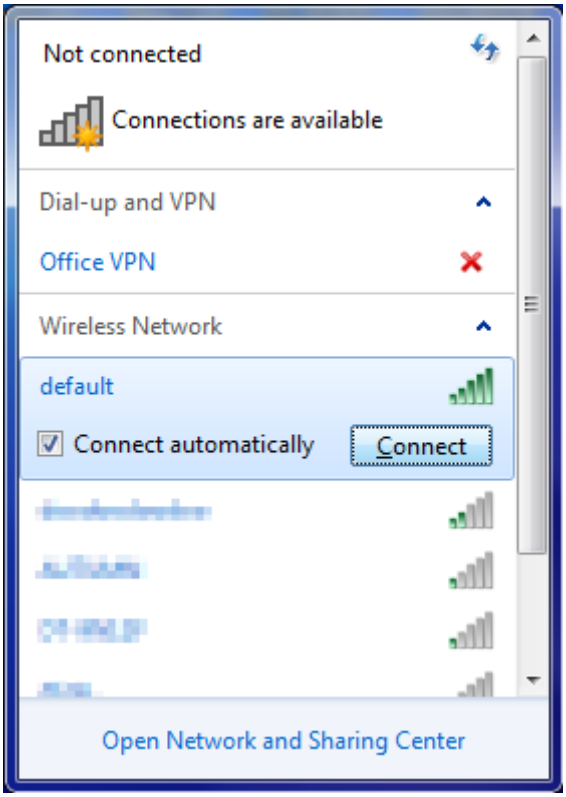


Figure 6-6 WLAN AutoConfig

Note

If you will be connecting to this Wireless AP in the future, check [**Connect automatically**].

Step 4: Enter the **encryption key** of the Wireless AP

(1) The Connect to a Network box will appear

(2) Enter the encryption key that configured in section 5.3.2

(3) Click the [OK] button

Figure 6-7 Type the network key

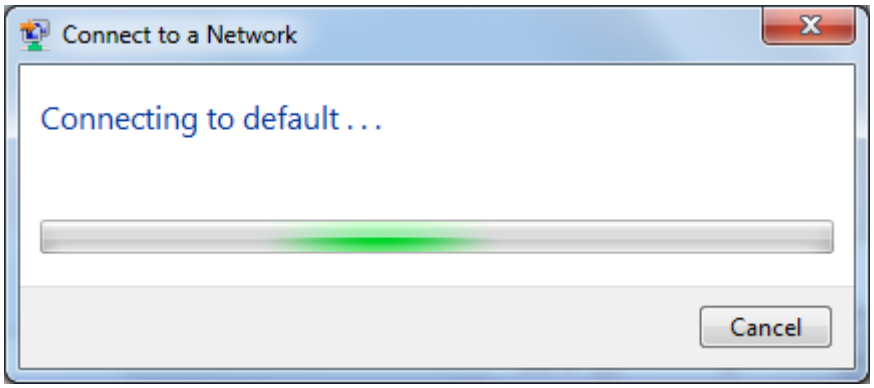


Figure 6-8 Connecting to a Network

Step 5: Check if "**Connected**" is displayed

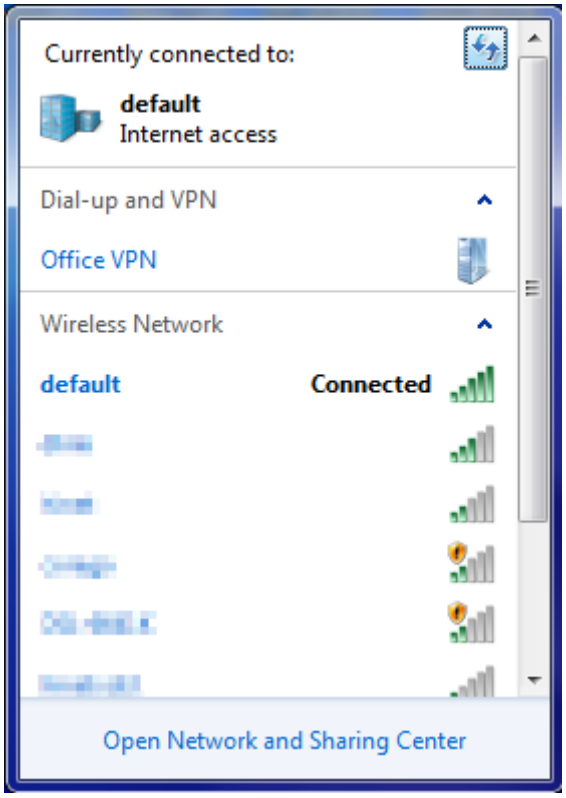


Figure 6-9 Connected to a Network

6.3 Mac OS X 10.x

In the following sections, the default SSID of the WNAP-W2200 is configured to “default”.

Step 1: Right-Click on the **network icon** displayed in the system tray

The AirPort Network Connection menu will appear

Figure 6-10 Mac OS – Network icon

Step 2: Highlight and select the wireless network (SSID) to connect

(1) Select and SSID [**default**]

(2) Double-click on the selected SSID

Figure 6-11 Highlight and select the wireless network

Step 4: Enter the **encryption key** of the Wireless AP

(1) Enter the encryption key that configured in section 5.3.2

(2) Click the [OK] button

Figure 6-12 Enter the Password

Note

If you connect this Wireless AP in the future, check [**Remember this network**].

Step 5: Check if the AirPort is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in the front of the SSID.

Figure 6-13 Connected to the Network

There is another way to configure the MAC OS X Wireless settings:

Step 1: Click and open the [**System Preferences**] by going to **Apple** > **System Preference** or **Applications**

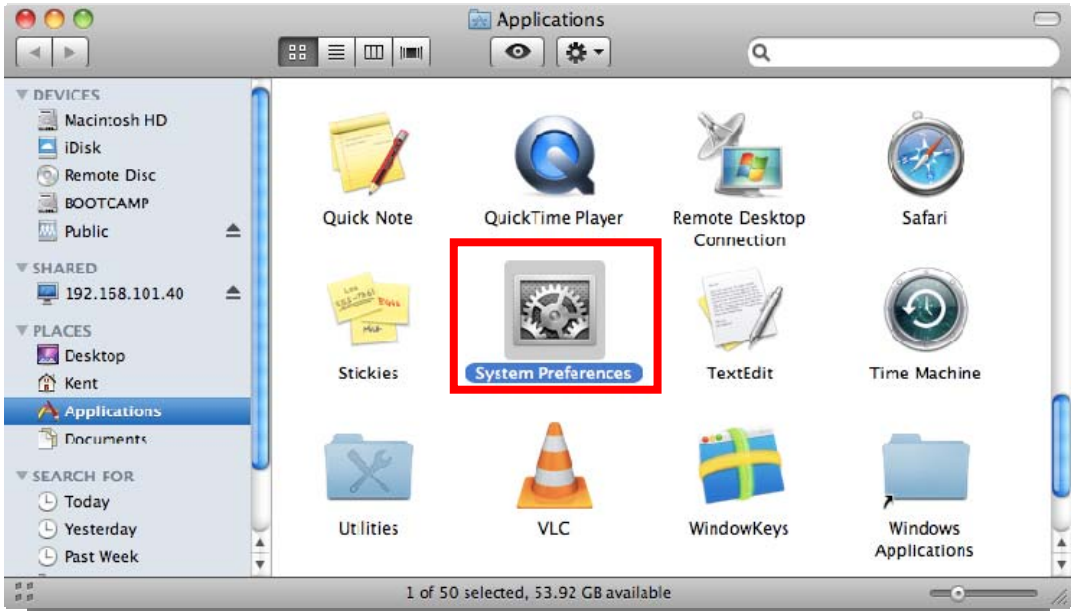


Figure 6-14 System Preferences

Step 2: Open **Network Preference** by clicking on the [**Network**] icon

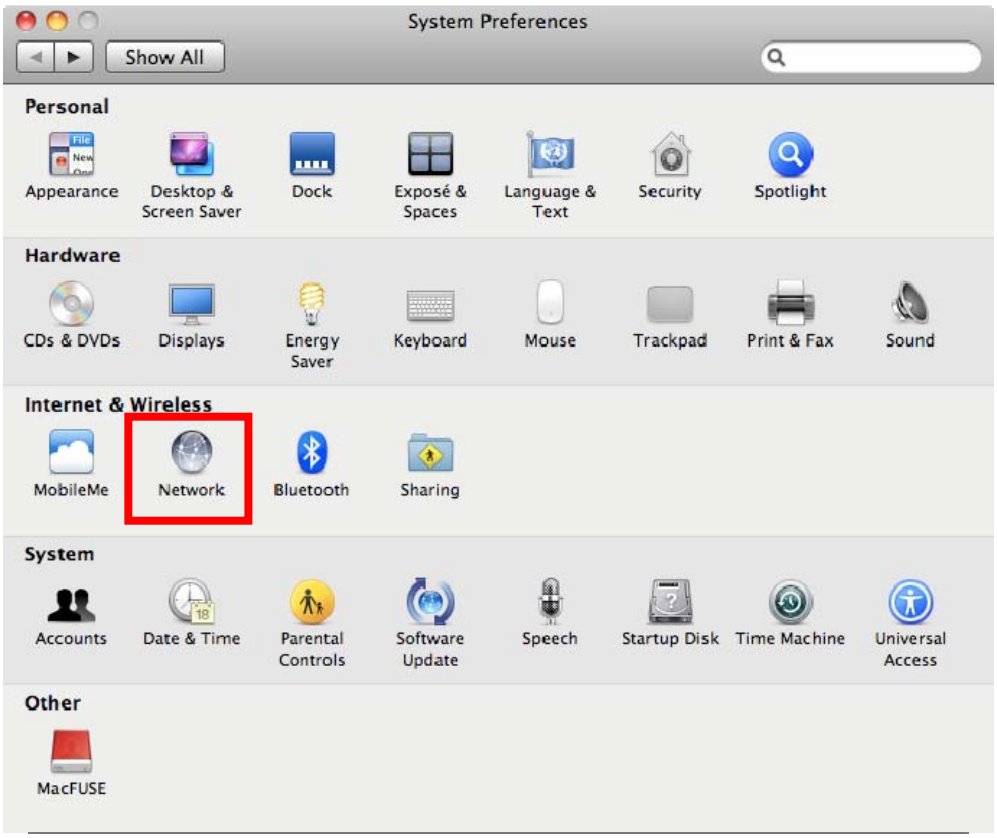


Figure 6-15 System Preferences -- Network

Step 3: Check Wi-Fi setting and select the available wireless network

(1) Choose the **AirPort** on the left-menu (make sure it is ON)

(2) Select Network Name [**default**] here

If this is the first time to connect to the Wireless AP, it should show “Not network selected”.

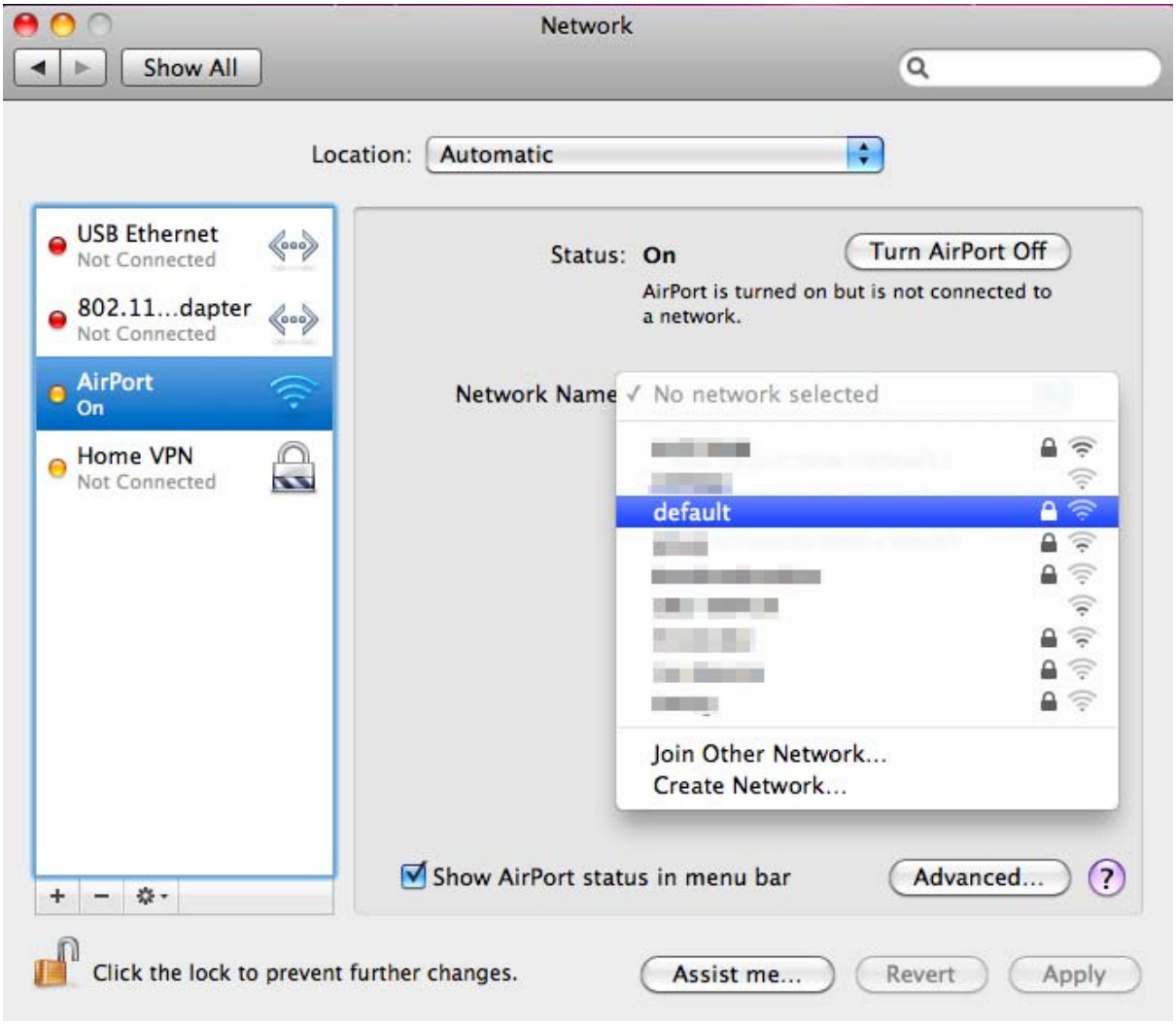


Figure 6-16 Select the Wireless Network

6.4 iPhone / iPod Touch / iPad

In the following sections, the **default SSID** of the WNAP-W2200 is configured to "**default**".

Step 1: Tap the [**Settings**] icon displayed in the home screen

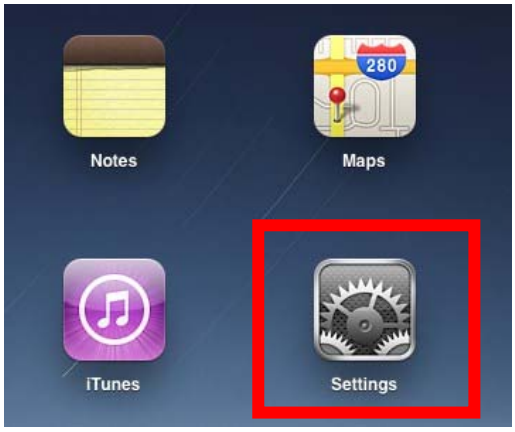


Figure 6-17 iPhone – Settings icon

Step 2: Check Wi-Fi setting and select the available wireless network

(3) Tap [**General**] \ [**Network**]

(4) Tap [**Wi-Fi**]

If this is the first time to connect to the Wireless AP, it should show "Not Connected".

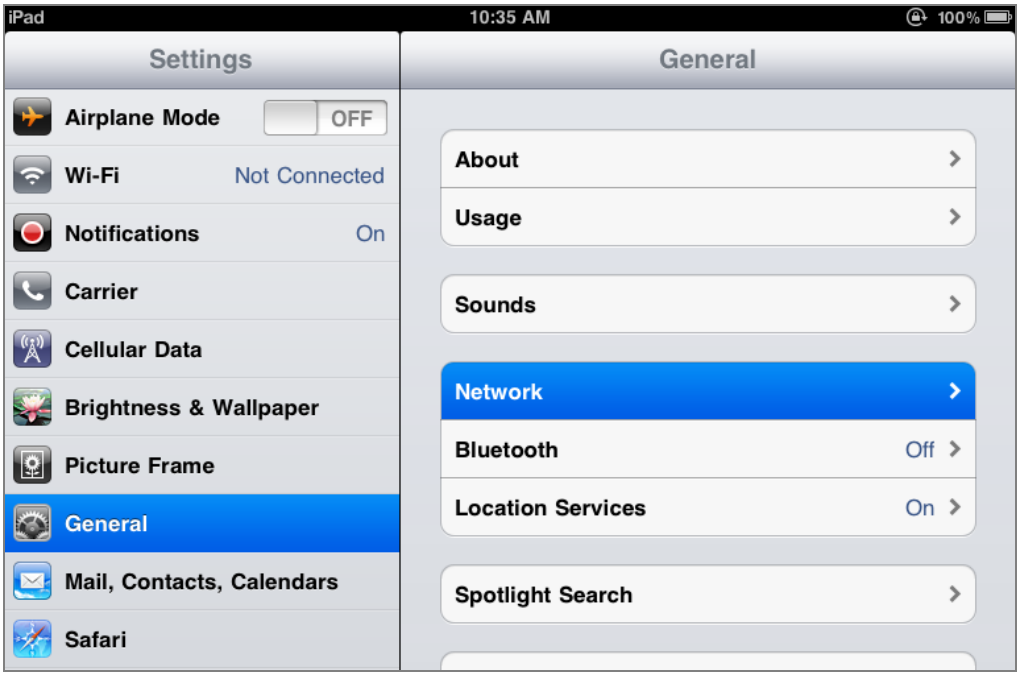


Figure 6-18 Wi-Fi setting

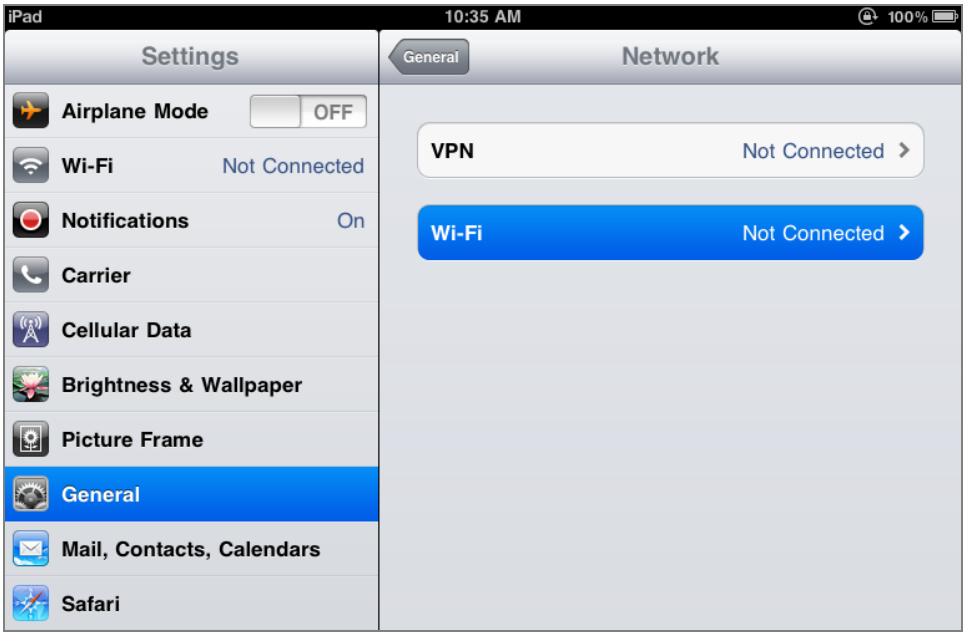


Figure 6-19 Wi-Fi setting – Not Connected

Step 3: Tap the target wireless network (SSID) in "**Choose a Network…**"

(1) Turn on Wi-Fi by tapping "**Wi-Fi**"

(2) Select SSID [**default**]

Figure 6-20 Turn on Wi-Fi

Step 4: Enter the **encryption key** of the Wireless AP

(1) The password input screen will be displayed

(2) Enter the encryption key that configured in section 5.3.2

(3) Tap the [**Join**] button

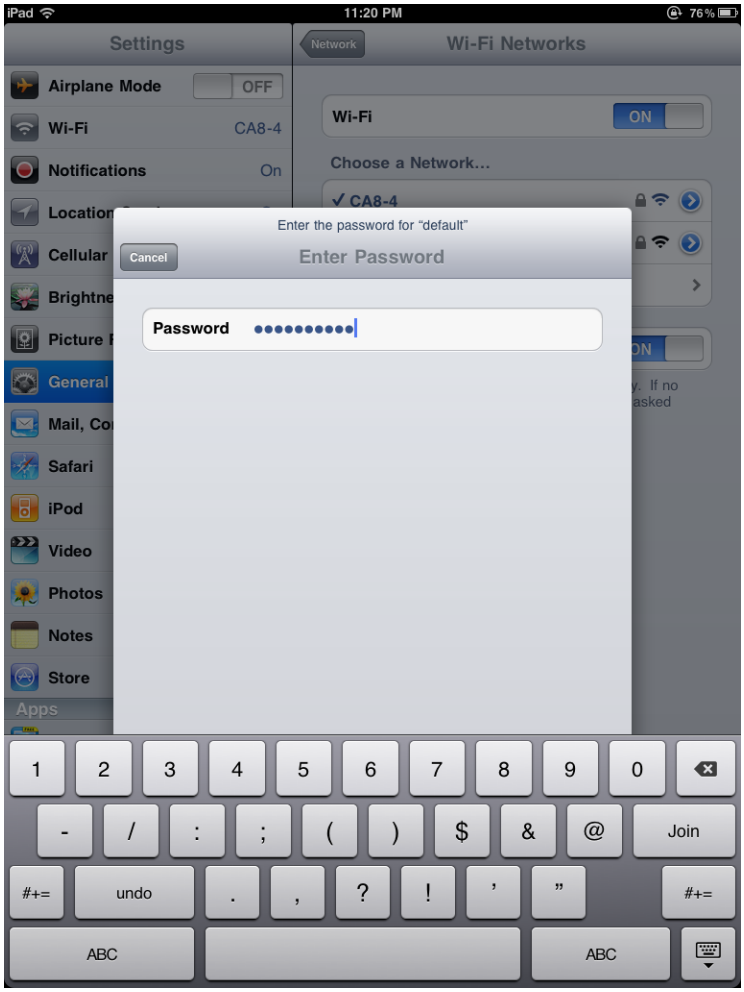


Figure 6-21 iPhone -- Enter the Password

Step 5: Check if the device is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in the front of the SSID.

Figure 6-22 iPhone -- Connected to the Network

Appendix A: Planet Smart Discovery Utility

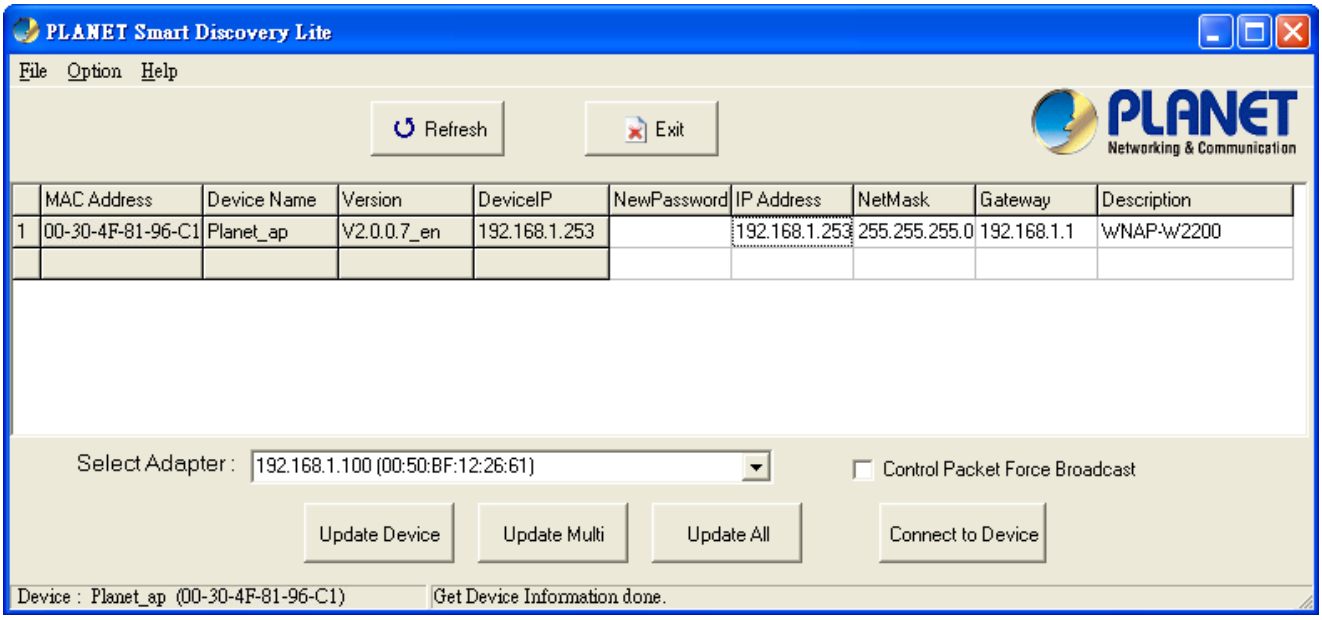
To easily list the WNAP-W2200 in your Ethernet environment, the Planet Smart Discovery Utility from user's manual CD-ROM is an ideal solution.

The following installation instructions guide you to running the Planet Smart Discovery Utility.

Step 1: Deposit the **Planet Smart Discovery Utility** in administrator PC.

Step 2: Run this utility and the following screen appears.

Step 3: Press **"Refresh"** button for current connected devices in the discovery list as shown in the following screen:



Step 3: Press **"Connect to Device"** button and then the Web login screen appears.

Note

The fields in white background can be modified directly, and then you can apply the new setting by clicking the "**Update Device**" button.

Appendix B: Troubleshooting

If you found the AP is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help,. Some problems can be solved by yourself within a very short time.

Scenario	Solution
The AP is not responding to me when I want to access it by web browser.	a. Please check the connection of the power cord and the Ethernet cable of this AP. All cords and cables should be correctly and firmly inserted to the AP. b. If all LEDs on this AP are off, please check the status of power adapter, and make sure it is correctly powered. c. You must use the same IP address section which AP uses. d. Are you using MAC or IP address filter? Try to connect the AP by another computer and see if it works; if not, please reset the AP to the factory default settings (pressing 'reset' button for over 10 seconds). e. Set your computer to obtain an IP address automatically (DHCP), and see if your computer can get an IP address. f. If you did a firmware upgrade and this happens, contact your dealer of purchase for help. g. If all the solutions above don't work, contact the dealer for help.
I can't get connected to the Internet.	a. Go to 'Status' -> 'Internet Connection' menu, and check Internet connection status. b. Please be patient, sometimes Internet is just that slow. c. If you connect a computer to Internet directly before, try to do that again, and check if you can get connected to Internet with your computer directly attached to the device provided by your Internet service provider. d. Check PPPoE / L2TP / PPTP user ID and password again. e. Call your Internet service provide and check if there's something wrong with their service. f. If you just can't connect to one or more website, but you can still use other internet services, please check URL/Keyword filter. g. Try to reset the AP and try again later. h. Reset the device provided by your Internet service provider too. i. Try to use IP address instead of host name. If you can

	use IP address to communicate with a remote server, but can't use host name, please check DNS setting.
I can't locate my AP by my wireless device.	a. 'Broadcast ESSID' set to off? b. All two antennas are properly secured. c. Are you too far from your AP? Try to get closer. d. Please remember that you have to input ESSID on your wireless client manually, if ESSID broadcast is disabled.
File downloading is very slow or breaks frequently.	a. Are you using QoS function? Try to disable it and try again. b. Internet is slow sometimes. Please be patient. c. Try to reset the AP and see if it's better after that. d. Try to know what computers do on your local network. If someone's transferring big files, other people will think Internet is really slow. e. If this never happens before, call you Internet service provider to know if there is something wrong with their network.
I can't log into the web management interface; the password is wrong.	a. Make sure you're connecting to the correct IP address of the AP! b. Password is case-sensitive. Make sure the 'Caps Lock' light is not illuminated. c. If you really forget the password, do a hard reset.
The AP becomes hot	a. This is not a malfunction, if you can keep your hand on the AP's case. b. If you smell something wrong or see the smoke coming out from AP or A/C power adapter, please disconnect the AP and A/C power adapter from utility power (make sure it's safe before you're doing this!), and call your dealer of purchase for help.

Appendix C: Specifications

Product	**WNAP-W2200** 300Mbps 802.11n Wireless In-wall Access Point	
Hardware Specification		
Interface	PoE Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port (Rear Panel) ※ IEEE 802.3af PD Port
	LAN Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port (Front Panel)
	USB Port :	USB 2.0, Type-A, 5V DC/0.5A Output
PoE	IEEE 802.3af	
Antenna	Built-in 3dBi antenna x2	
Reset Button	Reset button at front panel Press over 7 seconds to reset the device to factory default	
LED Indicators	PWR/SYS LED	
Material	Plastic	
Dimensions	86 x 86 x 36 mm (L x W x H)	
Weight	113g	
Power Requirements	48V DC, 320mA	
Power Consumption	< 10W	
Wireless interface Specification		
Standard	Compliant with IEEE 802.11b/g/n	
Frequency Band	Europe / ETSI: 2.412~2.472GHz (13 Channels)	
Channel Width	20 or 20/40MHz	
Transmission Distance	Indoor up to 100m Outdoor up to 300m (it is limited to the environment)	
RF Power (Intentional Radiator)	IEEE 802.11b: 18dBm IEEE 802.11g: 15dBm IEEE 802.11n: 15dBm	

Appendix D: Glossary

- **802.11n -** 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- **802.11b -** The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11g -** specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **DDNS** (**D**ynamic **D**omain **N**ame **S**ystem) **-** The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- **DHCP** (**D**ynamic **H**ost **C**onfiguration **P**rotocol) **-** A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- **DMZ** (**De**militarized **Z**one) **-** A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- **DNS** (**D**omain **N**ame **S**ystem) **-** An Internet Service that translates the names of websites into IP addresses.
- **Domain Name -** A descriptive name for an address or group of addresses on the Internet.
- **DSL** (**D**igital **S**ubscriber **L**ine) **-** A technology that allows data to be sent or received over existing traditional phone lines.
- **ISP** (**I**nternet **S**ervice **P**rovider) **-** A company that provides access to the Internet.
- **MTU** (**Maximum Transmission Unit**) **-** The size in bytes of the largest packet that can be transmitted.
- **NAT** (**N**etwork **A**ddress **T**ranslation) **-** NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- **PPPoE** (**P**oint to **P**oint **P**rotocol **o**ver **E**thernet) **-** PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

- **SSID -** A **S**ervice **S**et **Id**entification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- **WEP** (**W**ired **E**quivalent **P**rivacy) **-** A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- **Wi-Fi -** A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- **WLAN** (**W**ireless **L**ocal **A**rea **N**etwork) **-** A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

EC Declaration of Conformity

English	Hereby, **PLANET Technology Corporation,** declares that this **802.11n Wireless AP** is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	**Lietuviškai**	Šiuo **PLANET Technology Corporation,**, skelbia, kad **802.11n Wireless AP** tenkina visus svarbiausius 1999/5/EC direktyvos reikalavimus ir kitas svarbias nuostatas.
Česky	Společnost **PLANET Technology Corporation,** tímto prohlašuje, že tato **802.11n Wireless AP** splňuje základní požadavky a další příslušná ustanovení směrnice 1999/5/EC.	**Magyar**	A gyártó **PLANET Technology Corporation**, kijelenti, hogy ez a **802.11n Wireless AP** megfelel az 1999/5/EK irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.
Dansk	**PLANET Technology Corporation,** erklærer herved, at følgende udstyr **802.11n Wireless AP** overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF	**Malti**	Hawnhekk, **PLANET Technology Corporation,** jiddikjara li dan **802.11n Wireless AP** jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC
Deutsch	Hiermit erklärt **PLANET Technology Corporation,** dass sich dieses Gerät **802.11n Wireless AP** in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi)	**Nederlands**	Hierbij verklaart , **PLANET Technology orporation,** dat **802.11n Wireless AP** in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG
Eestikeeles	Käesolevaga kinnitab **PLANET Technology Corporation,** et see **802.11n Wireless AP** vastab Euroopa Nõukogu direktiivi 1999/5/EC põhinõuetele ja muudele olulistele tingimustele.	**Polski**	Niniejszym firma **PLANET Technology Corporation,** oświadcza, że **802.11n Wireless AP** spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie „Directive 1999/5/EC”.
Ελληνικά	*ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ* , **PLANET Technology Corporation,** *ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΟ* **802.11n Wireless AP***ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ*	**Português**	**PLANET Technology Corporation**, declara que este **802.11n Wireless AP** está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Español	Por medio de la presente, **PLANET Technology Corporation,** declara que **802.11n Wireless AP** cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE	**Slovensky**	Výrobca **PLANET Technology Corporation,** týmto deklaruje, že táto **802.11n Wireless AP** je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 1999/5/EC.
Français	Par la présente, **PLANET Technology Corporation,** déclare que les appareils du **802.11n Wireless AP** sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE	**Slovensko**	**PLANET Technology Corporation**, **s tem potrjuje,** da je ta **802.11n Wireless AP** skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 1999/5/EC.
Italiano	Con la presente , **PLANET Technology Corporation,** dichiara che questo **802.11n Wireless AP** è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.	**Suomi**	**PLANET Technology Corporation,** vakuuttaa täten että **802.11n Wireless AP** tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Latviski	Ar šo **PLANET Technology Corporation,** apliecina, ka šī **802.11n Wireless AP** atbilst Direktīvas 1999/5/EK pamatprasībām un citiem atbilstošiem noteikumiem.	**Svenska**	Härmed intygar, **PLANET Technology Corporation,** att denna **802.11n Wireless AP** står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.